CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 9, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(* *denotes that this work is advertised in Engineering News.*)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
9-10	Bridge, Jacksonville, Fla...(P.)	9- 2
9-11	Power station, Mare Island, Cal. (S.)	8-19
9-14*	Pumping engines, Detroit, Mich. (P. & S.)	7-15
9-18	Hospital buildings, Washington, D. C. (S.)	8-19
9-18*	Grading, Olathe, Kan. (P. & S.)	9- 2
9-23	Water tanks, New Orleans, La. (S.)	9- 2
10-10*	Seawall, Ft. McRee, Fla. (P. & S.)	8-19
12- 1*	Heating, ventilating, New Zealand (P. & S.)	9- 9

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

9-11	Boilers, Columbia City, Ind.	9- 2
9-11	Power station, Mare Island, Cal.	8-19
9-14	Light plant, etc., Detroit, Minn.	9- 2
9-14	Electric equip., New York	9- 2
9-15	Electric plant alterations, Anoka, Minn.	9- 9
9-15	Electric plant, Broken Bow, Neb.	9- 9
9-15	Conduit, Chicago, Ill	9- 2
9-16	Extension of light system, Fort Leavenworth, Kan.	9- 9
9-18	Power-house, Mercer, Pa.	9- 9
9-20*	Electric light plant, Orange, N. J.	9- 9
9-20	Elec. light equip., Orange, N. J.	9- 2
9-28	Lighting system, Ft. Adams, R. I.	9- 9
9-30*	Boilers, engines, etc., Philippines.	9- 9
10-20	Lighting, New Albany, Ind.	9- 2
10-28*	Electric motors, Toronto, Ont.	9- 2

BRIDGES.

9-10	Bridge, Missoula, Mont	9- 2
9-10	Bridge, Jacksonville, Fla.	9- 2
9-10	Superstructure, etc., Canal, Winchester, Ohio	9- 9
9-11	Bridge, South Deerfield, Mass.	9- 9
9-11*	Bridge, Green River, Utah	8-26
9-13	Bridges, Barberton, Ohio	8-26
9-13	Bridge, Zanesville, Ohio	9- 2
9-14	Bridges, Easton, Pa	9- 2
9-14	Bridge, Trenton, N. J.	8-26
9-14	Trestle, Springston, Idaho	8-19
9-14*	Bridges, Philadelphia, Pa.	9- 2
9-14	Bridges, etc., Danville, Ind.	9- 9
9-15	Bridge bonds, Spokane, Wash.	9- 9
9-15	Viaduct, Joliet, Ill.	9- 9
9-15	Bridge approaches, Ft. Wayne, Ind.	9- 9
9-17	Bridge, Reading, Pa.	9- 9
9-17	Bridge, Chambersburg, Pa.	9- 9
9-18	Bridge, Toledo, Ohio	9- 2
9-20	Bridges, Everett, Wash.	9- 9
9-21*	Steel bridge, Merced, Cal.	7-29
9-23	Bridge, Umatilla Reservation, Ore	8-26
9-24	Bridges, etc., Cincinnati, Ohio	9- 9
10- 4	Superstructure, Toronto, Ont.	9- 9

BUILDINGS.

9-13	Asylums, St. Paul, Minn.	8-26
9-14	Building, Hartford, Conn.	8-19
9-14	Building, Fort Wayne, Ind.	8-19
9-14*	Heat and power plant, Supply, Okla	8-19
9-15*	Science hall, Washington, D. C.	8-19
9-15*	Building, Washington, D. C.	8-26
9-16	Post-office, San Angelo, Tex.	8-12
9-15	Plans, Kenosha, Wis	9- 2
9-16	Hospital, Ft. Worden, Wash.	9- 2
9-18	Hospitals, Chelsea, Mass.	8- 5
9-18	Hospital buildings, Wash., D. C.	8-19
9-20*	Post-office, etc., Richmond, Va.	8-19
9-20	School, Westwood, N. J.	9- 9
9-21	Plans, Storrs, Conn.	9- 2
9-23*	Addition, Springfield, Ohio	9- 9
9-24	Quarters, Ft. Missoula, Mont.	9- 9
9-27	Factory (Mfg. Pl.), Marshalltown Iowa	8-26
9-28*	Post-office, Woonsocket, R. I.	8-26
9-29	Post-office, Great Falls, Mont.	8-26
9-30*	Post-office, etc., Paducah, Ky.	9- 2
10- 1*	Post-office, Denison, Tex.	8-26
10- 4	Hospital, Wash., D. C.	9- 2
10- 6*	Post-office, Fredericksburg, Va.	9- 2
10- 7*	Post-office, Jackson, Mich.	9- 9
10-11*	Dormitory, Spring City, Pa.	9- 9
10-13*	Post-office, Belfast, Me.	9- 9
10-18*	Post-office, La Crosse, Wis.	9- 9
10-19*	Post-office, Elgin, Ill.	9- 9
12- 1*	Heating, ventilating, New Zealand	9- 9

WATER-WORKS.

9-10	Softening plant, Columbus, Ohio.	9- 9
9-11*	Cocks, Wash., D. C.	9- 2
9-13	Water-works, Hartshorne, Okla.	8-19
9-13*	Dam, etc., Newburgh, N. Y.	8-26
9-13	Water mains, Fargo, N. Dak.	9- 9
9-13	Dam, etc., Skillman, N. J.	9- 9
9-14	Aqueduct, Montreal, Que.	8-19
9-14	Gate valves, etc., Richmond, Va.	8-26
9-14	Pumping engines, Detroit, Mich.	7-15
9-14	Water pipe, Detroit, Mich	9- 2
9-15	Reservoir, Denver, Colo	9- 2
9-15*	Coagulating basin, High Point, N. C	8-26
9-15	Pipes, castings, Victoria, B. C.	9- 9
9-15	Water-works, Shirley, Ind.	9- 9
9-15	Reservoir, Dowington, Pa.	9- 9
9-15	Water mains, Fort Leavenworth, Kan.	9- 9
9-15	Pumping plants, New York	9- 9
9-16	Water-works, Ft. Gibson, Okla.	9- 9
9-16*	Pipe, specials, Parkersburg, W. Va.	9- 9
9-17	Aqueduct, Salt Lake City, Utah.	9- 9
9-18	Connecting water system, National Soldiers' Home, Va.	9- 9
9-20*	Enlarg'g reservoir, Bradford, Pa.	9- 9
9-21*	Repairing dam, McAlester, Okla.	9- 9
9-22	Pump, etc., Saskatoon, Sask.	9- 9
9-22*	Pumps, New York	9- 9
9-22	Remodeling pumping plant, Fort Logan, Colo	9- 2
9-25	Water tanks, New Orleans, La.	9- 2
9-30	Filter plant, Rock Island, Ill.	8-26
10- 5	Cast-iron pipe, Montreal, Que.	9- 2
10- 5*	Water-works, Marietta, Ga.	9- 9
10- 5	Pipe, Toronto, Ont.	9- 9
10- 6	Water-works, Bradford, Ohio.	9- 9
10-14*	Turbine pumps, Toronto, Ont.	8-19
10-28*	Dike, Casper, Wyo.	9- 9

SEWERS.

9-10	Drainage, Sea Isle City, N. J.	9- 2
9-10	Sewers, South Haven, Mich.	9- 9
9-13	Sewers, Ogden, Utah	9- 9
9-13	Sewers, Cedar Rapids, Iowa.	9- 9
9-13	Drainage system, Atlantic City, N. J	9- 2
9-14	Sewer, Morris, Minn	9- 2
9-14	Sewers, Clarinda, Iowa	9- 9
9-14	Disposal plant, Wernersville, Pa.	9- 9
9-15	Sewer system, Stromsburg, Neb.	9- 9
9-15	Sewer system, New Decatur, Ala.	9- 9
9-17	Sewer laterals, Angola, Ind.	9- 9
9-17	Sewers, New York	9- 9
9-17*	Sewer, Louisville, Ky.	9- 2
9-20*	Sewers, Fort Morgan, Ala.	8-26
9-20	Sewers, Janesville, Wis.	9- 9
9-23*	Sewer systems, etc., Bordentown, N. J.	9- 9
9-24*	Sewer, Louisville, Ky.	8-26
9-25*	Sewers, Batavia, N. Y.	9- 9

STREETS AND ROADS.

9-10	Roads, Hookset, N. H.	9- 2
9-10	Grading, Millersburg, Ohio	9- 2
9-10*	Paving, Fayette, Ohio	9- 2
9-10	Paving, Valparaiso, Ohio	9- 2
9-10	Road oiling, Cincinnati, Ohio.	8-26
9-10	Roads, Bloomington, Ind	8-26
9-10	Gravel roads, Noblesville, Ind.	9- 9
9-10	Cedar blocks, Chicago, Ill.	9- 9
9-11	Paving, Kennedy, Ohio	9- 9
9-11	Roads, Morristown, Tenn	9- 2
9-11	Grading, North Yakima, Wash.	9- 2
9-13	Paving, Ashland, Ky.	9- 9
9-13	Sidewalk, Gardner, Ill.	9- 9
9-13	Paving, Des Moines, Iowa	9- 9
9-13	Macadam, Sacramento, Cal.	9- 9
9-13	Macadam, Oakland, Cal.	9- 9
9-14	Macadam, Upper Marlboro, Md.	9- 9
9-14	Paving, Toledo, Ohio	9- 9
9-14	Sidewalks, etc., Bellaire, Ohio	9- 9
9-14	Paving, Newport News, Va.	8-26
9-14	Broken stone, oil, New Brighton, N. Y.	9- 2
9-14*	Road, Wilmington, Del	9- 2
9-14	Grading, Pomeroy, Ohio	9- 2
9-15	Macadam, Toledo, Ohio	9- 2
9-15	Roads, Clinton, Tenn	8-26
9-15*	Roads, etc., Fort Andrews, Mass.	8-26
9-15	Grading, Osnaburg, Ohio	9- 9
9-15	Paving, Knoxville, Iowa	9- 9
9-15	Paving, Des Moines, Iowa	9- 9
9-15	Road, Olympia, Wash.	9- 9
9-15	Paving, etc., New York	9- 9
9-15*	Macadam, Rye, N. Y.	9- 9
9-16	Paving, etc., Beckley, W. Va.	9- 2
9-17	Paving, Bellefontaine, Ohio	9- 9
9-17	Road, Cincinnati, Ohio	9- 9
9-17	Paving, New York	9- 9
9-18	Grading, etc., Cleveland, Ohio	9- 2
9-18*	Grading, Olathe, Kan	9- 2
9-20	Grading, etc., Newton, N. J.	9- 2
9-20	Paving, etc., Huntington, W. Va.	9- 2
9-20	Walks, Ft. Dade, Fla	9- 2
9-20	Paving, White Bear Lake, Minn.	9- 9
9-21*	Paving, McAlester, Okla	9- 9
9-22	Walks, Ft. Crook, Neb.	9- 9
9-22	Grading, etc., Ft. Sam Houston, Tex.	9- 9
9-24	Roads, Cincinnati, Ohio	9- 9
9-28	Road, Vancouver, Wash.	9- 9
9-29	Walks, Ft. Oglethorpe, Ga.	9- 9
10- 5	Paving, etc., Huntsville, Ala.	9- 9

MISCELLANEOUS.

9-10*	Seawall, Ft. McRee, Fla.	8-19
9-10*	Excavation, etc., Fort Totten, N. Y.	8-19
9-10	Culvert, Cincinnati, O.	8-26
9-10*	Dredging, Buffalo, N. Y.	8-26
9-10	Vessel, Washington, D. C.	9- 2
9-11	Ditch, Wheaton, Minn.	9- 9
9-13	Ditch, Avoca, Iowa	9- 9
9-13	Mattresses, etc., New Orleans, La	9- 2
9-13	Ditch, Clinton, Iowa	9- 2
9-13	Supplies, New York	9- 2
9-14	Drain, Clarion, Iowa	9- 2
9-14	Tunnel, Trenton, N. J.	9- 2
9-14*	Concrete material, Detroit, Mich.	9- 2
9-14*	Dredging, Raritan, N. J.	8-19
9-14*	Jetties, New York, N. Y.	8-26
9-15*	Creosoted material, Galveston, Tex	8-19
9-15*	Air compressor, Pittsburg, Pa.	8-19
9-15*	Breakwater, Newport, R I.	8-19
9-15	Wire fence, Ft. Reno, Okla.	9- 9
9-16	Boiler, New York	9- 9
9-16	Ditch, Sac City, Iowa	9- 9
9-16*	Excavation, levee, Norfolk, Va.	8-26
9-18*	Dredging, Fort Terry, N. Y.	9- 9
9-20*	Grading, Tampa, Fla.	9- 9
9-20*	Grading, St. Louis, Mo.	9- 9
9-20	Steel tugboat, Panama	8-26
9-20*	Dam, machinery, Cincinnati, O.	8-26
9-20	Levee, New Orleans, La.	9- 2
9-20	Steel bars, Atlanta, Ga	9- 2
9-22	Subway, Saskatoon, Sask	9- 2
9-22	Subway, Saskatoon, Sask.	9- 9
9-27	Dredging, Ft. Moultrie, S. C.	9- 9
9-27	Steel tower, Wilmington, Del.	9- 2
9-28	Vacuum system, Pierre, S. Dak.	7-15
9-30	Steamer, Ottawa, Ont.	8-26
10- 5	Monument, Sharpsburg, Md.	8-26
10- 5*	Barge Canal, Albany, N. Y.	9- 9
10- 6*	Steel barges, Vicksburg, Miss.	8-19

EXAMINATIONS.

9-15	Laboratory Asst., Wash., D. C.	8-19
9-15	Asst. in Agriculture, Wash., D. C.	8-19
9-18	Arch. Designer, Albany, N. Y.	9- 2
9-18	Topographic Draftsman, Albany, N. Y	9- 2
9-18	Tracer, Delineator, Albany, N. Y.	9- 2
9-18	Inspector Drawing and Industrial Training, Albany, N. Y.	9- 2
9-29	Electrical Asst., Wash., D. C.	8-19
9-29	Engr. of tests, Wash., D. C.	8-19

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ABBEVILLE & NORTHWESTERN.—It is announced that this company has filed a mortgage for $800,000 with the Knickerbocker Trust Co., New York, for building its line. As officially noted on Jan. 28, "this company plans to build a railroad, about 75 miles long, from Abbeville, Ga., via Pineview and Unadilla, to Fort Valley, Ga., 58 miles; and a branch from Emerich to Montezuma, Ga., 17 miles. The authorized capital is $100,000. Headquarters will be at Abbeville, Ga. J. L. Bankston is Pres., Abbeville. Surveys are made and right-of-way secured. Date for letting contracts not fixed upon yet. Company was recently chartered. The incorporators were J. L. Bankston, W. A. Cherry, T. R. Moye, E. M. Carnes, Hal Lawson, W. H. Wilkinson, M. B. Cannon, J. B. Girardeau, C. F. Chapman and W. L. Harrell, all of Abbeville." Press reports state that the line now under consideration will be about 50 miles long, connecting Abbeville and Montezuma.

ALBERTA CENTRAL.—We are officially informed that this company is authorized to construct a railway from the town of Red Deer, Alberta, on the line of the Calgary & Edmonton Ry. midway between the cities of Calgary and Edmonton, westerly from this town and northerly to a point on the Grand Trunk Pacific Railway in the Yellow Head Pass, a distance of about 300 miles, and easterly from Red Deer to Moose Jaw, in the Province of Saskatchewan, a distance of nearly 300 miles, with a branch line from a point on the eastern portion of the main line near Battle River to Saskatoon, or Warman, in the Province of Saskatchewan, a distance of about 120 miles. The company is authorized to issue debentures, bonds or other securities to the amount of $35,000 per mile for each mile built or under contract to be built and the capital stock is fixed by the Act of Parliament at $2,000,000. Westerly along the line of this railway, which is the only railway authorized to be built through the territory mentioned, there is a Government subsidy of $3,200 a mile for 75 miles. The Provisional Directors recently organized at Red Deer and engaged J. Grant McGregor, who is already at work making the preliminary survey for the company and locating the line and furnishing other necessary information, upon which the company may arrive at a decision whether to undertake the work of construction. Smith & Johnston, Ottawa, Ont., are the Solicitors for this company. Noted on Dec. 24, 1908.

ARANSAS HARBOR & NORTHERN.—Company will invite bids soon for building this proposed line from Smithville, Tex., to Aransas Pass, Tex., 180 miles, via Gonzales, Cuero, Goliad and other points. One large bridge over the Guadaloupe River will be built and several smaller ones, but none to cost over $40,000. Roger Byrne, of Smithville, Tex., is interested.

ATCHISON, TOPEKA & SANTA Fe.—Company plans to begin grading work about Sept. 15 on the remaining 90 miles of the Arizona & California line to complete it from the bridge over the Colorado River near Parker, Ariz., west to Bengal, Cal.

GULF, SOASH & PACIFIC.—Company proposes to have this line in operation early in 1911 for about 50 miles from Big Springs, in Howard County, Tex., northwesterly via Soash. The incorporators include T. H. Peters, Big Springs, Ch. Engr. Noted last week.

KANSAS CITY, HARLEM & ST. JOSEPH.—This company has been chartered with $530,000 capital to build a standard-gage line from Kansas City through Clap, Platte and Buchanan counties to St. Joseph, about 50 miles; with a branch from the main line to Tiffany Springs. The directors are E. J. Ward and R. B. Throop, of Chicago; D. C. Ketchum, J. H. Cummings, Jr., and H. H. Donjam, of Kansas City; Edward J. Ward, of Chicago, is Pres. and Ch. Engr.; Daniel C. Ketchem, of Kansas City, Vice-Pres. and Gen. Attorney; Ralph B. Throop, of Chicago, Secy. and Treas.

MEXICO NORTHWESTERN.—It is announced that this company has taken over the property and lines in Mexico of the Chihuahua & Pacific R. R., operating 178 miles from Tabalaopa Junction west to Temosachic; the Rio Grande, Sierra Madre & Pacific R. R., operating 156 miles from El Paso, Tex., southwest to Terrazas; the Sierra Madre & Pacific R. R., in operation from Temosachic north to Madera, 32 miles, and its Madera-Bacerac branch, of which 18 miles are built. Surveyors are now locating a line to be built from Terrazas south to Madera, and are also locating the route for a proposed extension from a point on the existing line, southwest, to a connection with the Southern Pacific and probably through to the Pacific coast.

MISSOURI RIVER & NORTHERN.—Incorporated in South Dakota, with $1,000,000 capital and office at Gann Valley, S. Dak. The plans call for about 100 miles of line from Platte, in Charles Mix County, north through Brule, Buffalo and Hand Counties to Orient, in Faulk County. The incorporators include: W. O. Crockett, J. R. Ziebach, J. E. Ingerson, of Gann Valley; J. Q. Anderson, of Chamberlain, and J. B. Ross, of Miller.

MONTANA, WYOMING & SOUTHERN.—Incorporated in New Jersey with $5,500,000 capital to build from Bridger, Mont., to Belfry and Bear Creek, 33 miles. Incorporators are Frank S. Gannon, 2 Rector St.; William C. Langley, 10 Wall St.; William H. Seibert, 2 Rector St.; James J. Molloy, and Charles W. Fernald, all of New York.

NATIONAL RYS. (of Mexico).—We are officially informed that the contract for grading and masonry to be done on the change of line from Metepec to San Lorenzo, on the Interoceanic Railway, a distance of 42 kilometers, has been awarded to OLIVIER & GORDON, 3A de Tacuba No. 21, Mexico City.

NEW ORLEANS & GULF STATES.—Incorporated in Louisiana to build a railroad to connect New Orleans and Pensacola, Fla. The company is capitalized at $5,000,000. The petitioners are I. T. Preston, Gen. Agent of the Frisco and Rock Island Systems at New Orleans; A. L. Phillips and F. G. Jonah. Directors are J. T. Preston, A. L. Phillips, L. Q. Huey, W. R. P. Huey and J. E. Himes.

NEWPORT NEWS & YORKTOWN.—Charter has been granted this company in Virginia. Company proposes to build a railroad from Newport News, Va., to Yorktown, a distance of 20 miles. The maximum capital has been placed at $25,000. The officers of the company are: Pres., W. T. Chapin, Newport News; Vice-Pres., Alvah H. Martin, Norfolk County; Secy. and Treas., C. P. Jones, and General Solicitor, George N. Wise. These, with W. B. Collona, W. D. Copeland, L. A. McMurran, Frank R. Carty and C. T. Hobert, all of Newport News, are directors. H. W. Bowen also is one of the incorporators. The principal offices of the company will be in Newport News. The first meeting of stockholders will be held Oct. 5.

NORTH COAST.—Contract has been let to WASHTOCK & CHEW, of Spokane, Wash., for ten miles of rock work on the Spokane-Tekoa section, to cost about $400,000. The work is from a point about five miles southeast of Spokane, above the confluence of the Marshall and Hangman creeks east. On this section there will be five tunnels, aggregating about a mile, to be pierced through solid rock.

PROVIDENT RY. RIGHT-OF-WAY CO.—Surveys are now being made. Bids are wanted Sept. 15 to build from Glen Flora, in Wharton County, Tex., west via Provident City, to Hallettsville, in Lavaca County, 55 miles. There will be one steel bridge and four trestles. Carey Shaw, 2700 Fannin St., Houston, Tex., is Pres.

QUINCY, MOUNT STERLING & NORTHEASTERN.—Incorporated in Illinois, with $5,000 capital and headquarters at Quincy, Ill., to build from Quincy east via Liberty, thence northeast via Mount Sterling to Rushville, about 50 miles. The incorporators and directors include: B. Ryan, E. G. Koch, E. Miller, G. V. Zumsted and L. H. Menne.

SIOUX CITY, DAKOTA & NORTH WESTERN.—Incorporated in Iowa with $600,000 capital and office at Des Moines. The plans call for a line from Sioux City, Iowa, north about 40 miles to Hawarden. M. Hughitt and J. M. Whitman, of Chicago; W. A. Gardner and R. H. Aishton, of Evanston, Ill., and J. F. Cleveland, of Oak Park, Ill., are interested.

SOUTHERN RY.—STEWART & JONES, of Rock Hill, N. C., have secured a contract for grading five miles for the Southern Ry.'s double-tracking at Kanapolis, N. C., between Salisbury and Concord. Contract is to be completed in 90 days.

STATESVILLE AIR LINE.—This company proposes to build from Statesville, N. C., north to Mount Airy, N. C., about 64 miles, thence to Rodford, Va., an additional 65

miles. The first section to be built will be from Statesville, via Harmony and Yadkinville to Boonville, in Yadkin County, 42 miles. M. D. Turner, Pres. $290,000 in bonds have been voted by several townships in Yadkin and Iredell Counties to aid the Statesville Air Line R. R. Co. Officers are: W. D. Turner, Pres.; W. W. Wallace, Vice-Pres.; D. M. Ansley, Treas., and P. C. Carlton Secy., all at Statesville, N. C. Date has not yet been fixed for construction and equipment bids.

*TAMPA NORTHERN.—Bids are asked until noon by Alfred C. Olney, Ch. Engr., Tampa, Fla., until noon, Sept. 20, for the construction of 40 miles of railroad.

VALLEY RY.—We are officially advised that no contracts have been let yet. Construction work probably will be done by the company's forces. This railway will be seven miles long and will extend from the Chicago, Rock Island & Pacific Ry., 2½ miles west of Houston, Ark., to Perryville, Ark. Frank C. Faust is Pres., Mabelville, Ark. Surveys have been made and right-of-way and capital secured. Noted on Aug. 12.

ELECTRIC RAILWAYS.

HAMPSTEAD, N. H.—The Hampstead & Haverhill Electric R. R. Co. has been incorporated under the laws of New Hampshire and Massachusetts to build an electric railway from Manchester to Derry, via Hampstead, and connecting with the electric railways of Massachusetts, making a direct connection from Manchester, N. H., to Haverhill, Mass. Incorporators: Arthur M. Emerson, Hampstead, Pres.; Albert A. McReel, Exeter, Secy. and Treas. Directors: Roswell Annis, Manchester; Henry T. Rosewell, Derry, and George A. Sawyer, Atkinson. See item in last week's issue.

GENEVA, N. Y.—The Public Service Commission, Second District, has authorized the Geneva, Waterloo, Seneca Falls and Cayuga Lake Traction Co. to execute to the Westend Trust Co., of Philadelphia, a mortgage for $2,500,000. The corporation is authorized to issue at present, $500,000 5% 30-year bonds to be sold at not less than 90. Of the proceeds $400,000 are to be used for the discharge of the outstanding bonds of the corporation and $100,000 for the acquisition of property and extension and improvement of facilities of the corporation. Company has been authorized to construct an extension from Seneca Falls across Cayuga Lake to Auburn. Noted on June 3. The Commission has also granted this company authority to change its title to the Geneva & Auburn Ry. Co. W. C. Gray is Gen. Mgr., Seneca Falls, N. Y.

DUQUESNE, PA.—The Duquesne & Dravosburg St. Ry. Co. will increase its capital stock from $18,000 to $100,000, and will begin construction on the proposed road at once. As officially noted on July 29, this "company will let contracts in a few weeks for building its proposed electric line. It will be three miles long, extending from the corner of Hamilton Ave. and First St., Duquesne, to Dravosburg. Survey has been made and right-of-way mostly secured. Fred. W. Scott, of Duquesne, is Pres.; Douglass & McKnight, 306 Fourth Ave., Pittsburg, are Engrs.; T. F. Van Kirk is Secy., Aliquippa, Pa."

MERCER, W. VA.—The Mercer Elec. Ry. Co. has let contract for grading its line from Mercer to Bluefield to PECK & BROWN.

CHARLESTON, W. VA.—The Charleston, Montgomery & Eastern Ry. Co., which is to build a railway from Charleston to Gauley Bridge, 38 miles, via Montgomery, Cannelton and Kanawha Falls, has completed its preliminary survey. The railway is to be operated by electricity. Chas. K. McKermott is Engr.-in-Charge, at Charleston, W. Va.

PARKERSBURG, W. VA.—The Parkersburg, Marietta & Interurban Railway Co. has been granted permission to build several extensions. J. P. Horstman is Ch. Engr.

AURORA, IND.—The Engineering & Equipment Co., of Aurora, will soon be in the market for rails, cross ties, oil engines, generators and other railway equipment to be used in the construction of the company's proposed electric railway which is to connect Aurora and Rising Sun. All except three miles of the survey has been completed and right-of-way is being secured. The company has just been granted a franchise to build its line in Aurora. Both passengers and freight will be carried.

MADISON, IND.—On Sept. 28 subsidy elections in aid of the construction of the Cincinnati, Madison & Western Traction Co.'s line will be held in Madison, Hanover and Republican Townships. The aggregate amount asked is $67,000, which, added to the amount previously voted, will total $110,000. The proposed railway will connect Madison and Scottsburg.

DETROIT, MICH.—Bids will be received by F. A. Bean, Ch. Engr. of the Detroit, Lansing & Grand Rapids Ry. Co., until Sept. 15 for all necessary surveys and plans for an electric railway, about 62 miles in length, from Farmington to Lansing, it is announced. Headquarters, 706 Union Trust Bldg., Detroit. Noted on Aug. 26.

KALAMAZOO, MICH.—The Michigan & Chicago Westbound Ry. Co. has been incorporated to build an electric railway between Kalamazoo and Grand Rapids. Capital stock, $3,000,000. Alfred Henry Brown, Chicago, Ill., is interested.

DE KALB, ILL.—The De Kalb Midland Ry. Co. has plans about ready for constructing its proposed line between De Kalb, Elva, Waterman, Somonauk and Sandwich, 28 miles. Franchises from De Kalb, Sandwich, Somonauk and Waterman are for 50 years, with freight-carrying privileges. It has not yet been decided whether the company will generate or purchase power to operate the proposed railway. Capital stock, $150,000; issued, $100,000. Principal office, 134 Monroe St., Chicago. Officers: John F. Pearce, Chicago, Pres.; W. G. Wilcox, Vice-Pres.; John W. McQueen, Elgin, Secy.; Herbert J. Burdick, Y. M. C. A. Bldg., Elgin, Treas. O. F. Cole, 131 La Salle St., Chicago, is Ch. Engr. Noted on Dec. 17, 1908.

CHICAGO, ILL.—Bids were received on Sept. 1 by the Chicago Rys. Co. for a street railway tunnel under the Chicago River at La Salle St. Bids are given under Miscellaneous Contracts.

HAMPTON, ILL.—A 20-year franchise has been granted to the Tri-City & Northeastern Interurban Ry. Co., of Port Byron, by the Town Board. J. W. Simonson, Port Byron, is Pres.

CARMI, ILL.—The Carmi & Fairfield Traction Co. will be chartered to construct an electric railway, connecting Carmi, Sumpter, Liberty and Fairfield, a distance of about 25 miles. Construction will be started soon. The company will operate eight passenger cars and 24 freight cars. The power station and shops will be located at Burnt Prairie. Power will be furnished for lighting. Capital stock authorized, $50,000, preliminary. E. S. Lawrence, St. Louis, Mo., is Ch. Engr. Surveys are under way in charge of H. Gutzurler, of Cincinnati.

BOONE, IOWA.—At a special election recently held in Boone, the Iowa Light & Traction Co. was voted a 25-year street railway, lighting and heating franchise. Noted fully on Aug. 26.

SIOUX CITY, IOWA.—The Sioux City, Climbing Hill & Ida Grove Electric Ry. Co., it is announced, will soon be incorporated as the Sioux City & Eastern Traction Co. R. H. Baldwin, Chicago, Ill., Engr., is making the preliminary surveys, as noted on May 20. Company was organized for the purpose of building an electric railway from Sioux City through Climbing Hill and Anthon, to Ida Grove. Officers: C. S. Malcomb, Climbing Hill, Pres.; Payne Sargison, Luton, Treas.; W. H. Steinhauer, Climbing Hill, Secy.

KEOKUK, IOWA.—The Keokuk & Columbus Junction Transit Co. will build a 75-mile electric railway connecting Keokuk, Summitville, New Boston, Charleston, West Point, Lowell, New London, Winfield and Columbus Junction. The company may furnish power for lighting. Capital stock, $10,000. Office, 28 North Fifth St., Keokuk. J. E. Peterson, New London, is Pres.; D. B. Hamill, Keokuk, Vice-Pres.; Theo. A. Craig, Keokuk, Secy.; Ira W. Wills, Keokuk, Treas.

KANSAS CITY, KAN.—The Kansas City, Kaw Valley & Western Ry. Co. has been chartered to build an electric railway from Kansas City to Topeka, Kan., via Bonner Springs and Lawrence. Capital stock, $1,500,000. Headquarters, Bonner Springs. Incorporators: John W. McDanield and John C. Finney, Bonner Springs; Charles Knabb, Hiawatha; A. L. Cooper and W. H. Caffrey, Kansas City, Mo.

PITTSBURG, KAN.—The Pittsburg & Kansas City Ry. Co. has secured the property of the Girard Coal Belt Railway Co., including a 12-mile line, connecting Girard, Kan., Dunlap, Franklin and Croweburg. The new owners propose to connect this line with the Joplin & Pittsburg Railway, at Pittsburg, Kan., and build an additional 20 miles to connect Mulberry, Burgess and Curranville. When these improvements are finished, it will provide an interurban service in Missouri to Carthage, Joplin and Webb City, and in Kansas to Galena, Columbus, Weir City, Cherokee, Pittsburg and Girard. J. W. Ground is Pres., 311 First National Bank Bldg., Kansas City, Mo.; W. W. Calhoun, Secy., Carthage, Mo. Noted on March 11.

OKLAHOMA CITY, OKLA.—The Oklahoma City & Suburban Ry. Co. has been incorporated for the purpose of constructing four interurban railways, the main route to extend from Britton to Edmond and Oklahoma City to Moore, 32 miles in length. The main terminus will be at 13th St. and Santa Fe Ave., Oklahoma City. From this point one branch will extend east two miles and northwesterly two miles; another branch will extend from Main and Pennsylvania Aves. northwesterly for three miles. Branch offices will be located at Pittsburg, Pa., and New York, N. Y. Capital stock, $250,000. Incorporators: Charles W. Ford, Supt. of the Oklahoma Railway; J. J. Johnson, Fred S. Combs, W. A. Haller and Richard Durrett, all of Oklahoma City.

BAKER CITY, ORE.—The Baker Interurban Ry. Co. has been incorporated to build electric railways in the vicinity of Baker City. Capital stock, $50,000. Incorporators: Thos. B. Neuhausen, Anthony Mohr and A. K. Bentley. Company has been granted a franchise in Baker City.

OREGON CITY, ORE.—The City Council has granted a 25-year franchise to F. M. Swift, of the Oregon City, Beaver Creek & Molalla Ry. Co. to operate through the Mount Pleasant and Green Point sections of the city. Thos. F. Ryan and G. W. Dimmick are also interested.

SAN DIEGO, CAL.—The San Diego, El Cajon & Escondido Ry. Co. has petitioned the Common Council and the Board of Park Commissioners for an electric railway franchise to enter San Diego. This company organized and has begun preliminary arrangements for building an electric railway to connect San Diego, La Mesa, El Cajon, Bostonia, Lakeside, Morton, San Pasquale, Bernardo and Escondido, a distance of nearly 65 miles. Surveys have been completed, and it is probable that construction will be under way about Oct. 1. The proposed railway will be operated by an independent company and not as part of any other system. Arrangements for the power supply have not yet been considered. G. A. Davidson, Jr., San Diego, is Secy. and Treas.; G. W. Pursell, San Diego, Gen. Mgr. and Purchasing Agent; Charles Harlowe, Jr., Oakland, is Ch. Engr. Cost of the project is estimated at $2,000,000.

LIGHT AND POWER PLANTS.

LONGMEADOW, MASS.—The United Electric Light Co., of Springfield, Mass., has applied to the Council for a franchise to extend its transmission lines to Longmeadow to furnish electricity for lamps and motors. W. L. Mulligan, Springfield, is Mgr.

DALTON, MASS.—Contracts have been awarded by the Bryon-Weston Co. for machinery for its new mill, now under construction, as follows: To the ROBB-MUMFORD BOILER CO., 170 Summer St., Boston, Mass., for an 84-in. boiler; a 1,000-HP. turbo-generator set, to the ALLIS-CHALMERS CO., of Milwaukee, Wis., to be installed in the Defiance mill. The new generator will be capable of furnishing electricity to drive the entire plant. Ten new electric motors will be installed in the new mill and the Centennial mill. A new smokestack, 150 ft. high, will be erected at the Defiance mill.

TURNERS FALLS, MASS.—The Franklin Electric Light Co. is planning to establish an independent plant to supply electricity, and using the exhaust steam in public heating service. The company now secures electrical energy for operating its system from the Turners Falls Co. W. C. D. Thomas is Mgr., Montague City.

AMESBURY, MASS. — The Hamilton Woolen Co. is reported to have decided to expend about $30,000 in improvements, including construction of a dam, to give 500-HP. additional.

NEWPORT, R. I.—Bids will be received at the office of Capt. C. Metcalf, Constructing Q. M., U. S. A., Fort Adams, Newport, R. I., until 10 a. m., Sept. 28, for construction and remodeling the electric-lighting system at Fort Adams; also for furnishing transformers, tungsten lamps, watt meters and other apparatus required in the above work. Plans and specifications can be seen at the Quartermaster's office and at the offices of the Chief Quartermasters at Governor's Island, New York, and Chicago, Ill., and depot quartermasters at Philadelphia, Pa., and Boston, Mass. For information and blank proposal forms apply to office of the Constructing Quartermaster, Fort Adams.

MIDDLETOWN, CONN.—The contract for street lighting has been awarded by the city to the MIDDLETOWN ELECTRIC LIGHT CO. The company will furnish electricity for arc lamps at $89.50 each per year, and is to replace the old series incandescent lamps with tungsten lamps without extra charge to the city. L. C. Whitney is Mgr.

NEW HAVEN, CONN.—Plans have been prepared by the Prudential Committee of the New Haven Hospital for the installation of a new electric-light plant and an ice-manufacturing plant. Estimated cost, $25,000.

OLEAN, N. Y.—The Olean Electric Light & Power Co., F. S. Wahl, Mgr., it is reported, proposes doubling the capacity of its plant, including the installation of two 200-HP. gas engines, with new generators.

WHITE PLAINS, N. Y.—The New York Central & Hudson River R. R. Co., George W. Kittredge, Ch. Engr., expects to place contracts during the next two weeks for the erection of a substation at White Plains.

*ORANGE, N. J.—Bids will be received by the Common Council until 8 p. m., Sept. 20, for the installation of an electric lighting plant for Orange. Willett B. Gano is City Clk.

ORANGE, N. J.—The plans prepared by Runyon & Carey, of Newark, N. J. Consulting Engrs., for the proposed municipal electric light plant were approved by the Common Council on Aug. 16. The cost of the plant, with wires placed underground on Main St., is estimated at $76,000, with wires overhead $65,000. Plans call for two 160-KW. generating units, switchboard, condenser, steam piping, etc. The street lighting system calls for nine arc lamp circuits, providing for 365 magnetite arc lamps and 65 tungsten street lamps. The equipment will be installed at the water-works pumping station. Bids will be received until Sept. 20 for the above equipment.

JOHNSTOWN, PA.—C. Wellesley Smith, 1123 Broadway, Manhattan, has prepared plans for a power station and car barn for the Johnstown & Gallitzin R. R. Co., at Johnstown. Estimated cost, $60,000.

NORTHUMBERLAND, PA.—The EDISON ELECTRIC ILLUMINATING CO., it is reported, has been awarded contract by the Eyre-Shoemaker Co., contractors, to furnish 60 arc lamps and 500 incandescent lamps in connection with the contract for the construction of the classification yards here.

MERCER, PA.—Bids are asked until noon, Sept. 18, by the Commissioners of Mercer County for the erection and equipment of a power-house for the new Mercer County court-house. John Hassell, Mercer, is Chn.

PHILADELPHIA, PA.—Plans have been completed for lighting the Walnut Lane bridge across the Wissahickon River in Fairmont Park. Ornamental poles will be erected at the four terminals of the balustrades of the bridge on which will be supported five arc lamps. Four ornamental iron sidewalk poles will be placed, each bearing two arc lamps for lighting the center of the bridge. Estimated cost, including both the bronze and iron posts, about $7,500.

WASHINGTON, D. C.—Contracts have been awarded by the Secretary of the Treasury, Washington, for furnishing electric lamps during the fiscal year ending June 30, 1910, to the WESTINGHOUSE ELECTRIC & MFG. CO., Baltimore, Md., and the GENERAL ELECTRIC CO., Schenectady, N. Y.

WASHINGTON, D. C.—The EDGEMOOR IRON CO., of Wilmington, Del., is reported to have secured contract for installing new boilers with oil burners, etc., at the Puget Sound and Mare Island navy yards, at about $99,000.

ATLANTA, GA.—The R[illegible]sion has granted the Ge[illegible] permission to issue $1,5[illegible] stock and $1,550,000 in b[illegible]pany has recently acquire[illegible] of the North Georgia Elec[illegible] Etowah Power Co., proposin[illegible] water power on the Etow[illegible] Canton, and the Chattaho[illegible] Atlanta.

ATHENS, GA.—The Athe[illegible] Co. is contemplating the [illegible] 300-KW., 60-cycle railway [illegible] contracts for which will be [illegible] D. Flanigan, Athens, is Mgr.

DOTHAN, ALA.—The citi[illegible] to issue $6,000 of bonds, [illegible] the municipal electric light [illegible]

COAL CREEK, TENN.—T[illegible] Ry. & Light Co., recently [illegible] planning to construct an [illegible] from Coal Creek to Bricevil[illegible] to generate its own power. [illegible] Chief Engr.

COLUMBUS, OHIO.—The S[illegible] Board, it is reported, has d[illegible] an appropriation of $82,000 f[illegible] of equipment for the peni[illegible] plant.

FAYETTE, OHIO.—GEORG[illegible] AVIS and J. MILLS LAMB, of Hudson, [illegible]ch., have secured contract from the ci[illegible] for electric lighting system at $60 per lam[illegible] per year of 2,000 c.p., the current to be [illegible]rnished from their plant at Morenci, Mich.

COLUMBIA CITY, IND.—Th[illegible] City Council has authorized the purc[illegible] of three boilers for the municipal elec[illegible] light and water-works plant. Bids are [illegible]asked until Sept. 11.

GRAND RAPIDS, MICH.—Three power companies, with total capitalization of $700,000, filed articles of incorporation on Aug. 31, at Lansing. They are the Little Muskegon Water Power Co., capital $125,000; Montcalm Electrical Co., capital $75,000, and the Western Hydro-Electrical Co., capital $500,000, all of Grand Rapids, Mich.

LANSING, MICH.—Papers of incorporation have been issued to the Kalamazoo Valley Hydraulic Power Co., with a capital of $300,000. The company proposes to furnish power, light and heat in the Kalamazoo valley.

CHRISTOPHER, ILL.—The City Council has granted H. M. Rea, of the Christopher Light, Heat & Power Co., of Christopher, Ill., a franchise for an electric light plant.

OREGON, ILL.—The Oregon Power Co. will spend $300,000 in improving and enlarging their plant. They will light Franklin Grove and it is said extend on to Amboy and Sublette, having purchased the Amboy Power Co.

SIOUX CITY, IOWA.—The Sioux City Service Co. is planning to erect a new boiler-room, 131 × 77 ft., in which four new boilers will be installed. Estimated cost, $75,000. E. L. Kirk is Mgr.

DES MOINES, IOWA.—Contract for the electrical work on the new coliseum has been awarded to the DES MOINES ELECTRIC CO. at $2,100. P. B. Sawyer is Gen. Mgr.

ANOKA, MINN.—Bids will be received until Sept. 15 by Nicholas Moberg, Secy. Light, Water and Power Co. for alterations, repairs and additions to the electric light and power building.

LAKE CITY, MINN.—It is proposed to install this year at the municipal electric light plant a 100-KW. turbine, 3-phase.

ERIE, KAN.—The city is considering the installation of an electric light plant, sewer and water-works system. Estimated cost, about $50,000. J. C. Denison is City Clk.

FORT LEAVENWORTH, KAN.—Bids will be received by Capt. William D. Davis, Q. M., U. S. A., until 11 a. m., Sept. 16, for extending and making certain changes in the electric lighting system and fire-alarm system at Fort Leavenworth.

BROKEN BOW, NEB.—Bids are asked until Sept. 15 by the Broken Bow Electric Co. for the construction of a 30-arc electric plant, 2,000 c. p. Estimated cost, $22,000. J. W. Earley is Pres.

CROSBYTOWN, TEX.—Plans are being considered for the development of the Silver Falls water power and the construction of an electric power plant for the transmission of electricity. P. L. Coonley, 1901 Indiana Ave., Chicago, Ill.; J. S. Coonley and E. P. Bailey, both of Chicago, Ill., are interested.

BLACKWELL, OKLA.—Bids for extensions to electric light plant and water-works system will be opened about Sept. 15. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

CRESCENT, OKLA.—On Aug. 24 the citizens voted to issue $30,000 of bonds for the construction of an electric light plant and water-works system.

OKEMAH, OKLA.—See item under Water Supply—Irrigation.

SOUTH BOULDER, COLO.—See item under Water Supply-Irrigation.

BOULDER, COLO.—A new power, light and heating plant is to be installed on the University campus here. Estimated cost, $70,000.

OSWEGO, ORE.—A power plant, capable of furnishing light and power for factories, private enterprises and the towns surrounding Oswego, is being projected by the Oregon Iron & Steel Co. at Oswego.

OREGON CITY, ORE.—Preparations are being formulated by the Portland Ry., Light & Power Co., of Portland, A. R. Richmond, Ch. Engr., to commence preliminary work on a new hydro-electric power plant on the east side of the Willamette River at Oregon City. The plant when completed will have an output of 45,000 HP.

EUGENE, ORE.—It is reported that the Pacific Light & Power Co. will erect a large hydro-electric plant on Triangle Lake, Oregon. The proposed plant will furnish elec-

tricity for lamps and motors in Eugene, Junction City, Springfield, Corvallis and other cities in the upper Willamette Valley. C. P. Houston, of Junction City, is interested. Leland Spencer, of San Francisco, will have charge of the construction of the dam and canal.

EUREKA, CAL.—Arrangements are being made by J. B. Mortsolf, Supt. Hoopa Indian Agency, for installing an electric light plant to furnish electricity for lighting the agency buildings and grounds.

BISHOP, CAL.—The citizens have voted to issue bonds to establish an electric light plant here.

SAN JOSE, CAL.—The Board of Supervisors has awarded to the LOS GATOS ICE, GAS & ELECTRIC CO. a franchise to construct and operate transmission lines for an electric light and power system in Santa Clara County for a period of 50 years. The company proposes to furnish electrical service to practically all of the foothill country between Los Gatos and Palo Alato, Mayfield, Mountain View, Sunnyside, Los Altos and vicinity will be connected with the local plant. A. D. Farwell is Mgr.

WICKENBURG, ARIZ.—The Central Arizona Power Co. is planning to install new engines, it is reported, in its power plant at Wickenburg.

ST. MARIES, IDAHO.—The City Council has awarded a franchise to erect an electric light plant to G. H. Jay.

TORONTO, ONT.—The city will shortly ask for bids for various pole line supplies in connection with the electrical distribution system.

BRIDGES.

DEDHAM, MASS.—Contract for constructing an arched concrete masonry bridge of two spans over the Charles River, between Dedham and Needham, has been awarded, it is reported, to JOHN CASHMAN, of Quincy, at $17,061. Bids were opened on Aug. 23 by the County Commissioners.

SOUTH DEERFIELD, MASS.—Bids will be received by the Selectmen until 2 p. m., Sept. 11, for the construction of a reinforced-concrete highway bridge in South Deerfield. Width, 18 ft.; span, 12 ft. Specifications may be seen at the office of the Clapp & Abercrombie Co., Civil Engrs., 90 Main St., Greenfield, Mass.

PAWTUCKET, R. I.—The Board of Aldermen passed a resolution, it is reported, providing for an appropriation of $5,000 for the construction of a bridge at North Main St.

SYRACUSE, N. Y.—The engineers of the New York Central & Hudson River R. R. Co., and Frank M. Williams, State Engr., it is reported, are considering the construction of a bridge at Franklin St. over the Erie Canal. G. W. Kittredge is Ch. Engr., New York.

*PHILADELPHIA, PA.—Contract was awarded on Aug. 31 by George R. Stearns, Dir. Pub. Wks., to M. & J. B. McHUGH, Witherspoon Bldg., for a reinforced-concrete arch bridge 63 ft., 9-in. span, 80 ft. wide on the line of Thomas Ave. over the West Chester & Philadelphia R. R., at about $22,130. List of bidders noted last week.

CHAMBERSBURG, PA.—Bids are asked by the County Commissioners until noon, Sept. 17, for the erection of a reinforced-concrete bridge over Antietam Creek, Washington Township, with a clear span of 60 ft. and clear roadway, 14 ft. W. H. Forman, Chambersburg, is County Engr.

READING, PA.—Bids are asked by the County Commissioners until 10 a. m., Sept. 17, for supplying lumber and structural iron for repairs on Speicher's bridge along Tulpehocken Creek, between Penn and North Heidelberg Townships.

POTTSTOWN, PA.—The County Commissioners on Aug. 15 awarded contract to WILLAUER & CO., of Pottstown, for a bridge of concrete to be constructed on High St., across a stream in the western portion of Pottstown, at $4,577. The structure will have two arches, will be 30 ft. long and will be 80 ft. wide. It will be beneath the Colebrook R. R. and replace a 1-arch bridge. Other bids were as follows: James Smith, $7,663; Missimer & Wall, $7,573; Toledo-Massillon Co., $6,780.

CHESTERTOWN, MD.—The Baltimore & Eastern Ry. Co. contemplates the construction of a bridge across Chester River. Plans have not been made and officers of company not yet elected. A. H. McDonald, Travelers & Merchants' Association, Hopkins Pl. and German St., Baltimore, Md., is interested.

KENSINGTON, MD.—Contract for the construction of a concrete bridge over Rock Creek on the line with the new road from here to Bradley lane has been awarded to the McNAUL & DRURY CO., of York, Pa., at $3,268.

BALTIMORE, MD.—B. T. Fendall, City Engr., is drawing up plans for a bridge to carry Liberty Road over the Western Maryland R. R. tracks and Slingluff Ave.

PRINCESS ANNE, VA.—The Princess Anne County Commissioners will construct an iron and concrete bridge over Blackwater River. Estimated cost, $3,500.

GRAHAM, VA.—The Norfolk & Western Ry. Co., C. S. Churchill, Ch. Engr., Roanoke, Va., has, it is reported, appropriated $90,000 for the construction of bridges between Graham and North Fork.

WHEELING, W. VA.—Herman Laub, City Consulting Engr., will soon complete plans for Market St. bridge. Estimated cost, $55,000, of which city has appropriated $25,000 by terms of bond issue, and Wheeling Traction Co. and City & Elm Grove Traction Co. each $15,000.

LITTLELOT, TENN.—The NASHVILLE BRIDGE CO., Nashville, Tenn., has secured contract for a steel bridge over Duck River, near here, in Hickman County. Estimated cost, about $15,000.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners, Fred Dreihs, Clk., until Sept. 24, for constructing bridges and culverts on the Forfeit Run road, Colerain Township, as per Specification No. 962.

CINCINNATI, OHIO.—J. H. Sundmaker, City Engr., on Aug. 28 submitted to the Board of Public Service specifications for the new lift bridge to span the canal at Mohawk Pl. Contract for the work will probably be let within the next two or three weeks. Estimated cost, $25,725.

CANAL WINCHESTER, OHIO.—Bids are asked until noon, Sept. 10, by the County Commissioners, F. M. Sayre, County Audr., for furnishing all necessary labor and material for the construction of the superstructure and substructure of the Bishop Run bridge on the line between Franklin and Fairfield Counties, three miles south of here.

FORT WAYNE, IND.—Bids are asked by the Commissioners of Allen County until Sept. 15 for the construction of approaches to the New Haven River bridge. G. W. Lindenmuth is County Audr.

DANVILLE, IND.—Bids are asked until 10 a. m., Sept. 14 ,by the County Commissioners for the construction of eleven bridges and arches. William H. Nichols is Audr. Hendricks County.

INDIANAPOLIS, IND.—A new stone and concrete bridge over Fall Creek in Delaware St. has been petitioned for. Estimated cost, $100,000.

WARSAW, IND.—The County Commissioners are reported to have rejected bids for the construction of eight bridges in Kosciusko County as excessive. New bids will be asked.

RUSHVILLE, IND.—Contract for the construction of two concrete arch culverts has been let to H. T. WHITE, of Knightstown.

LANSING, MICH.—Contract for constructing a reinforced-concrete birdge at Mt. Hope Ave., over Sycamore Creek, 44-ft. span, 30-ft. roadway, has been awarded to the WESTERN CONCRETE BRIDGE CO., Chicago, Ill., at $6,950. Bids were opened on Aug. 10.

JOLIET, ILL.—Bids are asked until Sept. 15, by Arthur Montzheimer, Chief Engr., Elgin, Joliet & Eastern Ry. Co., for the construction of a steel viaduct at Jackson St. Estimated cost, $60,000.

The Fisher Construction Co. let the contract on Aug. 26 for the construction of the concrete bridges on the extension of their interurban line from Pontiac to Chenoa, a distance of ten miles, to BURNHAM & IVES, of Bloomington, at $20,000.

PARK FALLS, WIS.—Contract for constructing a steel highway bridge over the Llambeau River here has been awarded, it is stated, to the CENTRAL STATES IRON, STEEL & BRIDGE CO., of Indianapolis, Ind., at $5,985. Bids were opened on Aug. 11 by the Village Clerk.

BISMARCK, N. DAK.—Bids for the construction of a steel bridge and the repair of a number of others were opened by the Board of County Commissioners on Aug. 24. Lowest bidder was the FARGO BRIDGE & IRON CO., Fargo, N. Dak., at $4,125, and was awarded contract. T. R. Atkinson is State Engr.

PANGBURN, ARK.—The Pangburn Bridge Co., has been incorporated with $10,000 capital stock by H. Churchill, O. Z. Joyce, W. D. Ellis and others to construct bridge across Little River.

SAN ANTONIO, TEX.—The Bexar County Commissioners contemplate the erection of a concrete arch bridge across Medine River on Pleasanton road.

EVERETT, WASH.—Bids will be received by the County Commissioners until Sept. 20 for the construction of two steel bridges across the Stillaguamish River on the Arlington-Darrington road.

SPOKANE, WASH.—Bids will be received until Sept. 15 by Robert Fairley, City Controller for $500,000 bridge construction and repair bonds.

PORTLAND, ORE.—Plans have been submitted for approval to the Port of Portland and the War Department, Washington, D. C., for the viaduct which the Oregon R. R. & Navigation Co., G. T. Forsyth, Bridge Engr., Portland, proposes constructing across the Willamette River from Glisan to Oregon Sts. Estimated cost, about $1,300,000.

SAN FRANCISCO, CAL.—The Street Committee of the Supervisors on Aug. 26 reached an agreement with the United Railroads and the Ocean Shore R. R. Co. for the construction of the Mission Ave. viaduct. Marsden Manson is City Engr.

SACRAMENTO, CAL.—Bids were opened as follows by the Supervisors for the construction of the Benson Ferry trestles on the Lower Stockton road: Clark & Henery Construction Co., $7,995; Western Bridge & Construction Co., $8,322.

SAN DIEGO, CAL.—Plans are being prepared for the new bridge for the Atchison, Topeka & Santa Fe R. R. Co., to be constructed over Torrey Pines Boulevard, south of Del Mar.

MONTREAL, QUE.—The city, it is reported, is considering repairing the bridge at St. Catharines St. Estimated cost, $62,000.

TORONTO, ONT.—Bids will be received until Oct. 4 by Joseph Oliver, Chn. Bd. of Control for constructing the superstructure, weighing about 500 tons, of a bridge on the extension of Wilton Ave., crossing the Don River, consisting of the following spans: A 3-hinged arch, 117 ft. from c. to c. pins; two deck plate girder spans, 67 ft. 6 ins. long; two deck girder spans, 50 ft. long.

A. L. McLELLAN, of Toronto, has been awarded contract for the bridges on the wagon road from Elk Lake to Gowganda. There are twelve bridges in all, the longest being 290 ft.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

*BELFAST, ME.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 14, for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of an extension, remodeling, etc., to the U. S. post-office and custom-house at Belfast.

SPRINGFIELD, MASS.—The Fire Commission has retained B. Hammett Seabury, 21 Besse St., Springfield, as architect for the two fire stations to be erected on Dwight and Margaret Sts. Mr. Seabury will begin work at once on the plans for both buildings, and if it is possible to break ground for the buildings this fall, this start will be made. The matter of condemning the property of Stephen E. Seymour on Dwight St. to be used as a part of the site for the headquarters station is now in the hands of the City Solicitor.

BOSTON, MASS.—It is stated that the Boston Elevated Ry. Co. has filed plans with the Railroad Commissioners for the reconstruction of its elevated station at Sullivan Sq., necessitated by the extension of the elevated line to Malden. By these plans material changes will be made inside the building and additional structures will be erected outside. The result will be that some of the surface cars on the upper level will be able to make a loop instead of stopping at a dead end and backing out, and passengers will enter the elevated train from a new platform on the outside of the present building. At the present time the elevated train cuts a loop through the square, the line entering the building and passing through its center with a large loop swinging around the building for the return. It is proposed to enlarge this loop by moving the outside track farther away from the building, so as to have room for a new platform and for a switch tower between the track and the building. The surface cars will continue out through the front end of the building on a new loop which will encircle the square in front of the building. This loop and the loading platform in Main St. will be the principal new outside structure. Connection between the unloading platforms inside and the loading platform outside will be made by means of two passages to be cut through the Main St. wall, the passages to have a rise of about two feet. An overhead bridge will be built inside the station for transfer purposes. M. I. Paine is Supt. Bldgs., Roxbury, Mass.

PLYMOUTH, N. H.—The Boston & Maine R. R. Co. has awarded contract to the C. B. HUTCHINSON BUILDING CO., of Concord, N. H., and work is to be started at once on a brick and brownstone passenger station at Plymouth. The station is to be 1½ stories high, 47 × 194 ft., and is to cost about $150,000. C. C. Battey is Superv. Bridges and Buildings, Concord, N. H.

THIELLS, N. Y.—Franklin B. Ware, State Arch., Albany, is preparing a group plan for the Eastern New York State Custodial Asylum buildings to be erected here. The group will comprise office building, hospital, laboratory, store and supply house, laundry, bakery, library, chapels, schools, industrial buildings and workshops, power, light and heating plant, farm and dairy buildings, home for officers and homes for employees. The power-house will be figured first. Dr. Robert Hill is Secy. State Bd. of Charities, Albany, N. Y.

NEW YORK, N. Y.—We are offically advised that the BALTIMORE BRIDGE CO., 68 Broad St., New York, has been awarded the contract for the furnishing of the steel work for the armory of the 22d Regiment of Engineers, N. G., N. Y.

Plans have been filed by Thomas W. Lamb, Arch., 224 Fifth Ave., for Senator Timothy D. Sullivan, for the theatre to be built for him as president of the City Theatre Co., on 14th St., opposite the Academy of Music, on a plot running through to 13th St. It is to be five stories high, with the entrance and foyer on 14th St., the main building having a frontage of 100 ft. on 13th St. It is to be called the City Theatre, and is to cost $100,000. The site is already cleared.

A 6-story apartment house is to be built by the Mercury Real Estate Co., in The Bronx. The building will front 228 ft. on Prospect Ave., 178 ft. on St. John Ave., and 134 ft. on Kelly St. The site is a triangle block and has about six full lots.

Carrere & Hastings, Archs., 225 Fifth Ave., have filed plans with Superintendent Murphy for a home to be built for Edwin Gould at Fifth Ave. and 75th St. It is to be a 4-story and basement house, with attic, the 75th St. facade being 120 ft. long and the avenue frontage 30.2 ft. The house will be of Florentine Renaissance design, finished in limestone, with a balustrade at the second story, and another balustrade along the decorative roof of Spanish tile, the cornice below the upper balustrade being set with richly carved panels. There will be a central foyer hall opening into a salon and dining-room, the second floor having the library and music-room, connected by a broad, long gallery. The third floor will be fitted with a gymnasium, with a billiard room adjoining. There will be numerous guest chambers. The cost is estimated at $173,362.

NEW YORK, N. Y.—A syndicate in which Keitt T. Walker, 103 Park Ave.; Matthew K. Miller, 106 Park Ave., and George P. Walker are interested, will erect a 12-story apartment house. The site of the proposed building will not cover the whole plot, which fronts 177.2 ft. on Park Ave. and 100 ft. on 75th St. The present houses at 823 and 825 are to remain, so as to provide a light and air court for the big apartment. The probable cost of the new structure will exceed $1,000,000.

The BALTIMORE BRIDGE CO., 68 Broad St., has been awarded the general steel contract for the apartment building to be known as the "Cliff Haven" and to be erected at the corner of Riverside Drive and 114th St. The John J. Hearn Construction Co. is owner and builder; Denby & Nute, 334 Fourth Ave., are Archs.

C. P. Huntington, Arch., 18 West 31st St., New York, has been chosen by the American Geographical Society to plan a costly building which the society proposes to erect in New York.

NEW YORK, N. Y.—We are officially advised that the BALTIMORE BRIDGE CO., 68 Broad St., New York, has been awarded a contract by Cramp & Co. for furnishing the structural steel work for the extension of the U. S. Assay Office, Pine St., east of Nassau St., New York.

BOONVILLE, N. Y.—The following bids were received on Aug. 31 for constructing a high school building at Boonville: Griffith & Pierce, Utica, N. Y., $45,048; H. W. Otis Co., 39 East 42d St., New York, $42,222; A. B. Wheeler, Herkimer, N. Y., $41,345; Roberts X. Smith, Utica, N. Y., $20,298; Stephen Hines, Herkimer, N. Y., $35,942; F. A. Caswell, Watertown, N. Y., $33,494; W. H. Fissell & Co., 1133 Broadway, New York, $43,700; Waldron & Wood, North Creek, N. Y., $41,868; F. M. Cartmait, 1170 Broadway, New York, $41,000; Watertown Construction Co., Watertown, N. Y., $36,477; Scott & Gleason, Ilion, N. Y., $33,924; Richards, Steckell & Richards, Watertown, N. Y., $30,926.

AUBURN, N. Y.—S. E. Hillger, Seward Bldg., is preparing plans and will receive bids about Sept. 20, for a 2-story and basement graded school building, 97 × 150 ft., of brick, to be erected on North St. Cost, $75,000. Charles Hoskins is Pres. Bd. of Education.

JAMESTOWN, N. Y.—Plans for the City Hospital building, to be 36 × 140 ft., three stories and basement, stone and brick, of fireproof construction, have been completed by John H. Coxhead, Arch., 930 Ellicott Sq. Bldg., Buffalo, N. Y., and bids will be asked for soon. Dr. Jason Parker is Chn. Hospital Commission.

BUFFALO, N. Y.—We are officially advised that William B. Lynde, 621 Ellicott Sq. Bldg., has had revised plans prepared and is receiving bids for a 4-story and basement apartment house, about 45 × 116 ft., brick, stone trimming and structural steel, which he will erect at 49 Johnson Park. Approximate cost, $50,000. Esenwein & Johnson are Archs., 777 Ellicott Sq.

Colson & Hudson, 35 Dun Bldg., have completed plans and will receive bids for a 2-story and basement office building, 28 x 72 ft., to be erected at Church and Franklin Sts., for the Queen City Improvement Co., 907 D. S. Morgan Bldg.

BUFFALO, N. Y.—McCreary, Wood & Bradney, Archs., 614 Mutual Life Bldg., have prepared plans for a 3-story residence of stone, brick and steel, Colonial design, to be erected at Lincoln Parkway and Rumsey Road by John D. Larkin, Pres. of the Larkin Co. Cost, $100,000.

NEWARK, N. J.—Work will be begun within two weeks on the theatre to be erected in Newark by F. F. Proctor. It is to be located on Market St., west of Halsey St. The structure will cost more than $700,000, exclusive of equipment and furnishing. The foundation work will be started at once, and it is expected that the structural steel will be in place before Nov. 1. The theater will have an auditorium seating more than 2,000 persons, and will contain a scenic studio, offices and a large number of dressing rooms. On top of the structure will be a roof garden, with a miniature lake, around which will be room for an auditorium and a stage.

*WESTWOOD, N. J.—Bids are asked until 9 p. m., Sept. 20, by the Board of Education for the construction of an addition to Lincoln School Building, Westwood. Arthur J. Stever is Arch., Westwood.

ASBURY PARK, N. J.—Fev. Father Roche, Rector of the Roman Catholic Church at Asbury Park, has completed arrangements for the erection of a new building to cost $90,000.

*SPRING CITY, PA.—Bids are asked by J. F. Sherwood, Secy., care of Hon. John M. Scott, 625 Walnut St., Philadelphia, until 10 a. m., Oct. 7, for erecting dormitory buildings, K and M, for the Institution for Feeble Minded and Epileptics, near Spring City, Pa.

SHARON, PA.—The contract for the plumbing system that will be installed in the Masonic Building here has been awarded to W. M. McCORMICK & CO., of this city, and the contracts for the heating and ventilating systems have been awarded to CALDWELL & SEMPLE CO., also of this city. All subcontracts for this structure, which will cost upwards of $100,000, have been awarded.

PHILADELPHIA, PA.—George F. Lasher has had plans prepared for an 8-story concrete building, 120 × 150 ft., which will occupy a lot of this size at the northeast corner of Juniper and Cherry Sts. The old dwellings, which occupy the plot of ground between Juniper and Clarion Sts. were acquired three years ago by Mr. Lasher. They will be demolished to provide a site for the new building, which will cost about $300,000. The plans for the building have been prepared by Charles Balderston, 411 Walnut St.

ALLENTOWN, PA.— We are officially advised that the stockholders of the proposed Hotel Martinique at Fifth and Hamilton Sts., have elected W. A. Benjamin, of New York, Pres.; S. J. Prudent, of Philadelphia, Vice-Pres.; Andrew Morgan, of Slatington, Secy. and Treas. These, with John F. Redington, of Wilkes Barre; C. J. Earley and M. F. Goodman, of Allentown, constitute the Board of Directors. The company will be incorporated at $400,000, divided into 8,000 shares. Within the next two weeks the property will be taken over. The plans are being made by Ruhe & Lange, Archs., 10 North Sixth St., Allentown, and call for a 7-story building of iron frame work, 112 × 90 × 50 × 150

ft. The building is to be of stone. The building is to have 167 sleeping rooms. There will be a roof garden on the top. The property on which the building will be erected will be 122 × 230 ft. Estimated cost, $300,000. It has not been decided when contracts will be let.

WASHINGTON, D. C.—According to the Washington "Star," announcement has been made on the authority of G. Grosvenor Dawe, Managing Director of the Southern Commercial Congress, that arrangements are being made for the erection of a $1,000,000 building as the headquarters of the congress. The ground has been purchased and the money secured. Plans are being drawn by T. F. Schneider, Arch., and the work of construction is expected to be commenced within the next two or three months. It is hoped to have the building ready for occupancy within a year from the start. The site of the Southern Commercial Congress is the southeast corner of 15th and H Sts., now occupied in part by old St. Matthew's Church. It fronts for 148 ft. on H St. and for 150 ft. on 15th St., and contains 22,200 sq. ft., or almost half an acre. Diagonally across H St. is the Union Trust Bldg., which contains the temporary offices of the Southern Commercial Congress; the George Washington University stands on the southeast and the Shoreman Hotel occupies the remaining corner.

NEW ORLEANS, LA.—Bids were received as follows on Aug. 31, by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at New Orleans, La.: Charles McCaul Co., Tenth and Sansom Sts., Philadelphia, $828,000; John A. Carter Co., Philadelphia, $740,000; Jefferson Construction Co., North Peters and Louisa Sts., New Orleans, $747,500; John Gill & Sons, Citizens Bldg., Cleveland, Ohio, $842,000; Weil Bros. & Co., 160 Fifth Ave., New York, $817,000; Oscawana Building Co., 200 Fifth Ave., New York, $847,000.

NEW ORLEANS, LA.—Bids were received as follows on Sept. 7 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for furnishing the mechanical equipment for the post-office building at New Orleans, La.: Downey & Kruse Co., 137 Sycamore St., Milwaukee, Wis., $204,845; Charles E. Mandry & Co., Philadelphia, $193,794; S. Faith & Co., 2427 Pennsylvania Ave., Philadelphia, $211,247.

LOUISVILLE, KY.—The Cleveland, Cincinnati, Chicago & St. Louis Ry. Co. and Chesapeake & Ohio R. R. Co. will build a new freight depot for the terminals of the two companies at Floyd and Main Sts., at a cost of $150,000 is announced by M. L. Akers, Vice-President and Secy. of the Louisville & Jeffersonville Bridge Co., the holding corporation for the railroad companies. While the plans for the big building have not been completed, it is said that it will be entirely modern in construction and that the work of erection will begin before the close of 1910. The funds for the building are part of a bond issue of $1,000,000 floated by the company about three months ago for the purpose of acquiring real estate, making improvements and discharging obligations. The site for the depot extends from Floyd to Preston Sts., between Main and Washington Sts.

ELYRIA, OHIO.—The excavation for the new Lake Shore & Michigan Southern Ry. Co. freight depot on East River St., between Buckeye St. and the company's tracks, will be commenced at once. The building will be of brick and will cost between $45,000 and $50,000. D. C. Martin is Roadmaster, Elyria.

*SPRINGFIELD, OHIO.—Bids are asked until noon, Sept. 23, by the Superintendent of the Ohio Pythians' Orphans' Home, Springfield, for constructing an addition. Edward J. Monnstephen, Second and Main Sts., Dayton, Ohio, is Arch.

COLUMBUS, OHIO.—The Cleveland, Cincinnati, Chicago & St. Louis Ry. Co. has given a contract to W. C. CARR & SON, of Crawfordsville, Ind., for putting up a brick and timber freight house one story high, 140 × 670 ft., at Columbus, to cost $60,000.

LEBANON, IND.—The County Commissioners have adopted the plans of J. T. Hutton, Architect, of Hammond, Ind., for a court-house. The contract will be let October 4. The building will be erected on the site of the old court-house now being razed, and the estimated cost, exclusive of furnishings, is $220,000. It is to be 105 × 141 ft., exclusive of the projecting entrances on the four fronts. The height from the grade line to the top of the dome is 120 ft.

GREENSBURG, IND.—The Commissioners of Decatur County are preparing to construct a jail on the site of the old jail recently condemned.

JACKSON, MICH.—Bids are asked until 3 p. m., Oct. 7, by James Knox Taylor, Superv. Arch., Treasury Dept., Wash., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of an extension, remodeling, etc., to the United States post-office, Jackson.

*ELGIN, ILL.—Bids are asked until 3 p. m., Oct. 19, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of an extension, remodeling, etc., to the U. S. post-office at Elgin.

CHICAGO, ILL.—The Chicago Title & Trust Co. is to supplant its present 16-story building at 100 Washington St. by the construction of a 22-story building covering 100 ft. of frontage adjoining on the east, the cost of which will approximate $1,250,000.

Mrs. Charles Netcher will erect a building at 118-124 State St. which is expected to cost about $1,000,000. It will replace a 6-story building covering 91 × 106 ft., and its construction will complete for the present the rehabilitation of the Boston Store property. The entire south half of the block bounded by Washington, State, Madison and Dearborn Sts. will then have been improved with mercantile structures. The building will conform with the present Boston Store structure, including the 15-story Champlain building on the northwest corner of Madison and State Sts., and the 7-story building at Madison and Dearborn Sts. Construction will begin after the holiday season.

W. M. Gibbons, 49 Jackson Boulevard, will erect a building to be 20 stories high, with a frontage of 60 ft. and a depth of 80 ft. It will cost $400,000 and will be constructed as soon as certain existing leases on part of the property expire.

A building to house an automobile concern is to be erected. It is to be erected by Robert M. Fair, of Marshall Field & Co., who has entered into a contract to lease the building to a concern manufacturing motor devices for a term of 20 years. The building, which will be six stories and basement and of reinforced concrete construction, will be in 25th St., between Michigan and Wabash Ave., at the northwest corner of the alley and will occupy a lot fronting 62½ ft., with a depth of 110 ft. Its cost will approximate $75,000.

*LA CROSSE, WIS.—Bids are asked until 3 p. m., Oct. 18, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of an extension, remodeling, etc., of the U. S. post-office and court-house at La Crosse.

PLATTESVILLE, WIS.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Plattesville, Wis., to HENRY FERGE, 421 Milwaukee St., Milwaukee, Wis., at $49,150. Time, Sept. 1, 1910.

FARIBAULT, MINN.—The State Board of Control, P. M. Ringdal, Chn., St. Paul, Minn., has awarded the contract for the construction of a 3-story pressed brick and cut-stone girls' custodial building at the Institute for the Feeble-Minded here to KINGSLEY & PAYANT. The Board rejected all bids for the auditorium, cold storage and girls' industrial building for the school for the deaf.

ST. PAUL, MINN.—Mark Fitzpatrick, 15 West Ninth St., St. Paul, is preparing plans for a 2-story arcade containing 48 stores, to be built on Robert, Minnesota, Sixth and Seventh Sts. It will have steam heating, electric lighting and cost $200,000. It is expected that bids will be taken about Nov. 1.

ST. PAUL, MINN.—Bids will be asked for soon by the Board of School Inspectors, C. W. Gordon, St. Paul, Pres., for the general construction of the proposed West End High School. It will be three stories high, of reinforced concrete fireproof construction and will be built at Lexington Boulevard and Marshall Ave. Clarence H. Johnston, Manhattan Bldg., St. Paul, is Arch. Cost, $375,000.

MANHATTAN, KAN.—Bids were received as follows on Sept. 2 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Manhattan, Kan.: Manhattan Construction Co., Manhattan, Kan., $44,738; King Lumber Co., Charlottesville, Va., $53,750. Time, Nov. 1, 1910.

GREAT FALLS, MONT.—Work is to begin soon on the $75,000 depot of the Great Northern Ry. Co., at this town. A. H. Hogeland is Ch. Engr., St. Paul.

FORT MISSOULA, MONT.—Bids are asked until noon, Sept. 24, by Major A. B. Shattuck, A. Q. M., for the construction, heating, plumbing, and electric wiring of the following buildings: Two double sets non-commissioned officers' quarters, reinforced concrete or frame; one stable, reinforced concrete, and one wagon shed, frame.

ST. LOUIS, MO.—We are officially advised that plans for an office and warehouse, 65 × 133 ft., for the Friedman-Shelby Shoe Co., Ninth St. and Washington Ave., are being prepared. The building will be erected at Washington Ave. and Robbins Lane. The entire deal involves $150,000. The site of the new building is occupied by the building of the St. Louis Provident Association, which will move to a site at 22d and Locust Sts. The plans contemplate a new building for the Provident Association. The shoe company building will be erected by Robert S. Brookings, acting for Washington University. It will be nine or ten stories and will have a frontage of 65 ft. on Washington Ave. and a depth of 133 ft. on Robbins Lane. The rear of the property will be on Lucas Ave. The buildings will be constructed of reinforced concrete. The exterior of the first two stories will be of stone and pressed brick will form the exterior of the upper stories. It is reported the building will have 90,000 ft. of floor space. The general offices of the company, salesrooms and warerooms will be in the building which will be fireproof. It will be equipped with elevators, spiral chutes and an automatic sprinkler system. Construction work must begin by June 1, 1910, and the building must be ready for occupancy by April, 1911. The task of razing the present structure will begin as soon as the Provident Association vacates. Eames & Young, Wright Bldg., are Archs.

HELENA, ARK.—Joseph Solomon has awarded contract for the store and office building he will build in Helena to H. L. STEVENS & CO., of Atlanta, Ga. Joseph & Joseph, of Louisville, Ky., are Archs.

GONZALES, TEX.—James Knox Taylor, Superv. Arch., of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Gonzales, Tex., to L. R. WRIGHT, of Dallas, Tex., at $41,225.

EL PASO, TEX.—The Juarez Jockey Club has awarded the contract for the $500,000 racing plant on the Mexican side of the Rio Grande River at this place to H. L. STEVENS & CO., of El Paso, Tex. D. X. Murphy & Bro., of Louisville, Ky., are Archs.

DALLAS, TEX.—The ten railroad companies entering Dallas were notified on Aug. 28 by the State Commission to appear before that body on Oct. 12 and show cause why an order should not be issued requiring them to build a union passenger station in that city. The estimated cost of the proposed station is $1,000,000.

DENVER, COLO.—Morritz Barth, of Boston, Mass., brother of William Barth, of Denver, will proceed immediately to erect a 5-story hotel building, adjoining the Graymont Hotel, at 18th and California Sts., and will add two stories to the Graymont. These improvements will cost in the neighborhood of $75,000.

DENVER, COLO.—It is stated that plans for the enlargement of the Young Woman's Christian Association are being made, which include the erection of a building at the corner of 18th and Lincoln Sts., the addition to cost $100,000. Those interested in the work are Mrs. Frank Jerome, Mrs. C. J. Bishop and Mrs. Jennie Hendric, composing the Board of Directors.

SEATTLE, WASH.—C. C. Dose & Co., Archs., have prepared plans for a 3-story brick apartment and family hotel building to be erected at the southwest corner of 14th Ave. and Yesler Way to cost $50,000. The builder is Dr. S. J. Filz. This building will contain 100 rooms and on the first story will be four stores. Construction will start within a month.

SEATTLE, WASH.—L. Freedman, of Portland, Ore., will erect a 4-story brick and concrete building at 513-17 Maynard Ave., to cost $40,000.

The Cascade Investment Co., Fifth Ave., South, and Main Sts., will erect a 4-story brick clubhouse, to cost $40,000.

SPOKANE, WASH.—The Northwestern General Trading Co., Gale Smith, Mgr., 551 Spokane St., is having plans drawn for the erection of a $60,000 warehouse, to be erected at Perry St. and G. N. R. R.

The Spokane Club will erect a building on the north side of Riverside Ave. Work will start on the construction about the middle of September. The building will be three stories high on Riverside Ave., five stories on Main Ave., and will cost $150,000. The second and third floors will be used for club members.

PUYALLUP, WASH.—The contract for the construction of the proposed $40,000 High School building at Puyallup has been awarded to CHARLES BARTZ, and work will be commenced at once.

NORTH POWDER, ORE.—Bennes, Hendricks & Thompson, Archs., 227½ Washington St., Portland, are preparing plans for a rest resort to cost $100,000 at this place for the Carlsbad Sanitarium Co. The building will be three stories high.

LONGBEACH, CAL.—Henry P. Barbour announces that preliminary plans have already been drawn and work will commence about Dec. 1 on a 6-story, reinforced concrete apartment building, to cost $900,000.

HOLLYWOOD, CAL.—Preliminary drawings are being solicited by the City of Hollywood for a Polytechnic High School which is to cost $100,000. Dr. William H. Snyder is at the head of the board.

BERKELEY, CAL.—C. C. Dakin, Arch., Studio Bldg., Berkeley, has plans for a 2-story apartment house soon to be erected in North Berkeley, at a cost of about $100,000.

SAN LEANDRO, CAL.—Plans for the erection of the proposed Union Grammar School have been approved at a meeting of the School Directors. It is estimated that the cost of the school will be about $60,000.

SAN FRANCISCO, CAL.—A 5-story building is to be erected at southwest corner of Sutter and Stockton Sts. by E. H. Kittridge, 20 Drumm St., at a cost of about $60,000. Clinton Day, Union Trust Bldg., is Arch.

L. B. Figenbaum will build a 4-story and basement apartment house at the northeast corner of Sacramento and Polk Sts., to cost about $60,000. The structure will contain four stories and 87 rooms.

The Thompson Estate Co., represented by J. L. Borden, 417 Montgomery St., will erect a store and loft building soon, to cost $40,000.

SAN FRANCISCO, CAL.—Plans have been made for the construction of two buildings in O'Farrell St., which, jointly, will call for the expenditure of $150,000. The lot on which one of the structures will stand has been sold by R. S. Browne to A. B. Sheridan of Roseburg, Ore. It has a frontage of 37.6 ft. on O'Farrell St., 122.6 ft. at the southeast corner of Jones and O'Farrell Sts., and 60 ft. in Steveloe Pl. The structure will be of concrete and five stories high and will cost $70,000. The other building will be constructed for R. S. Browne. The lot is at the southwest corner of O'Farrell and Taylor Sts., and is square, 75 × 75 ft. in size. On this will be placed a steel frame structure to contain stores and about 100 rooms. The cost will be $80,000.

The proposed building of the Bohemian Club, to be built on the northeast corner of Post and Taylor Sts., will cost $250,000. The exterior will be of reddish brick, with dark stone trimmings. The plans were wrawn by G. W. Kelham and G. P. Rixford, Archs. The size of the building will be 180 × 100 ft. The foundations are already in. Work on the superstructure will begin soon.

OAKLAND, CAL.—As a result of a conference here Aug. 19 between Southern Pacific officials and representatives of the municipality and the commercial bodies, the railroad officials agreed to construct a $127,000 depot at once at the foot of 16th St. Julius Kruttschnitt and E. E. Calvin represented the S. P. Co.

SAN DIEGO, CAL.—We are officially advised that the members of the Masonic fraternity in this city have accepted plans prepared by Franklin P. Burnham, Pacific Electric Bldg., Los Angeles, Cal., for a 5-story $75,000 Masonic Temple, 100 × 100 ft., to be erected here. Working plans are now being prepared and bids will be asked in about one month. James McMullen, Assistant Arch., Union Bldg., San Diego.

OGDEN, UTAH.—Announcement has been made by R. Alexander Grant, representative of the Northwestern Theatrical Association, that the Utahna Theatre Co. will build a $50,000 building on the site of the old Utahna Theatre in Ogden. The Peery Estate of Ogden, which is interested in the company, will finance the construction of the building.

MOSCOW, IDAHO.—James Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Moscow, Idaho, to the INTER-STATE CONSTRUCTION CO., LTD., of Saginaw, Mich., at $80,000.

WINNIPEG, MAN.—GEORGE ARCHIBALD & CO., Union Bank Bldg., have received the contract for the carpentry at the union depot which will be stables at 100 ft., containing 144 stalls.

W. W. Blair, Arch., Nanto Bldg., has awarded the contract for a block of stores to cost $60,000 on Notre Dame St. to GEORGE STIRRETT.

NEW WESTMINSTER, B. C.—Extensive additions to cost from $75,000 to $100,000 are to be made to the Royal Columbian Hospital.

VANCOUVER, B. C.—We are officially advised that the contract for the Vancouver post-office fittings has been awarded to the BERLIN INTERIOR HARDWOOD CO., Ltd., of Berlin, Ont., and that for the electric fittings, etc., to HAWKINS & HAYWARD, of Victoria, B. C.

*NEW ZEALAND.—Bids are asked until Dec. 1 by R. Crowe, Secy., Technical College, Auckland, until Dec. 1, for heating and ventilating the Technical College Building. Plans and specifications are on file at the office of Engineering News, New York.

WATER SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

AMHERST, MASS.—We are officially advised that bids were received as follows on Aug. 30 by the Amherst Water Co. for constructing an earth dam with concrete core wall: P. A. Breglio, $28,205; Kiely & Gleason, $29,197; Jas. D. Kelley, $32,690; Ryan-Unmack Co., $33,417; C. E. Trumball & Co., $33,690; William Orlando, $34,620; Michael Little & Co., $35,000; Joseph Long & Co., $38,130; H. W. Warner, $38,300. William S. Johnson is Engr., 101 Tremont St., Boston, Mass.

GREENWICH, CONN.—Bids were opened at the office of Albert B. Hill, Engr., 100 Crown St., New Haven, on Aug. 24, for raising the Putnam dam and work appurtenant thereto for the Greenwich Water Co. The lowest bid received was that of Lafferty & Weir, 723 Lexington Ave., New York, at the following prices: 3,000 yds. stripping, 50 cts.; 30,000 yds. rolled earth embankment, 35 cts.; 20,000 yds. earth excavation for highways, 32 cts.; 1,000 yds. rock excavation, $1.10; 1,000 yds. concrete, $3.80; 1,100 yds. rubble masonry, $3.50; 1,000 yds. paving for culverts, etc., 80 cts.; 1,800 yds. rip-rap on dam, 90 cts.; 3,000 yds. rip-rap on roadway, 85 cts.; 340 yds. cobble gutters, 50 cts.; 3,000 bbls. cement, $1.75; one bridge, $250; 6,500 ft. wire fencing, 20 cts.; 2,500 ft. timber railing, 14 cts.; four manholes, each $35; 60 ft. 15-in. culvert, 80 cts.; total, $39,898. Other bids were: A. Lambo & Co., 243 Bank St., Waterbury, $65,565; Joseph Christiano, Greenwich, $64,776; Bunting-Bull Co., 1 Madison Ave., New York, $63,425; Erastus E. Burns, Greenwich, $59,775; the Pierson Engineering & Construction Co., Bristol, $59,344; Parker & Beebe, Waterford, N. Y., $55,991; Hartford Paving & Construction Co., Hartford, $54,845; J. & H. Cornell & Co., 60 Wall St., New York, $52,236; the Foye-Root Co., 20 Broad St., New York, $48,265; Coughlan & Sheils Co., 43 Tremont St., Boston, Mass., $47,395; Acken-Nightingale Construction Co., 2 Rector St., New York, $46,291; Lehigh Contracting Co., Warwick, N. Y., $44,985; Stillery-Piro Co., Mt. Vernon, N. Y., $43,340; Roger B. Kennedy, Middletown, $41,876; John O. Merritt Co., Portchester, N. Y., $41,074.

*NEW YORK, N. Y.—All bids opened on July 20 by the Board of Water Supply for pumps, etc., for the Jerome Ave. pumping station, Contract 39, have been rejected. The lowest bid was that of the Lord Electric Co., 213 W. 40th St., New York City, at $36,100. Noted last week. New bids will be received until 11 a. m., Sept. 22 by the Board of Water Supply for furnishing and installing two 12,500,000-gallon steam turbo-turbine pumps, two 25-HP. water tube boilers, and all accessories, at Jerome Ave. pumping station, Boro. Bronx.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Sept. 15, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and erecting pumping plants, complete, at Hook Creek, Horse Brook and Baldwin pumping stations, Long Island. For furnishing, delivering and erecting two pumping engines, with foundations, steam and auxiliary piping, suction and discharge piping, and all other appurtenances and appliances, complete, in the 98th St. Pumping Station, Boro. Manhattan. For furnishing, delivering and erecting a new discharge main, with all its appurtenances, complete, and ready for operation, in and from the engine room basement of the 179th St. Pumping Station, to Amsterdam Ave., Boro. Manhattan. For furnishing, delivering and laying water mains in First, Third, Fourth, Fifth and Sixth Sts., Boro. Manhattan. For furnishing, delivering and laying water mains in Eighth, Ninth, Tenth, Eleventh, Twelfth and 13th Sts., Boro. Manhattan.

SKILLMAN, N. J.—Bids will be received until Sept. 13 by David F. Weeks, M. D., Supt., New Jersey State Village for Epileptics, for constructing a concrete and earth dam, with necessary gates, screens, etc.;

erecting mechanical filter; furnishing and erecting 50,000-gallon water tank and tower, together with furnishing and laying a 6-in. water pipe, constructing an air-lift well and installing a duplex plunger pump.

MOUNT MORRIS, N. Y.—The Board of Village Trustees has let general contract for construction of water-works system to D. D. DUGAN, Mount Morris, N. Y., from plans of Engr. J. F. Wagner, 64 Ashland Ave., Buffalo, N. Y.

DOWNINGTON, PA.—Bids are asked by the Borough Council until noon, Sept. 15, for the construction of an impounding reservoir of 35,000,000 gallons capacity. About 6,000 cu. yds. of concrete will be required. Joseph H. Johnson, Boro. Surv.

*DOVLESTOWN, PA.—The Borough Council on Aug. 31 decided not to receive bids on Sept. 9 for relining, elevating and covering the present reservoir with steel reinforced concrete, due to shortage of water. Joseph L. Sweigard & Co., Betz Bldg., Philadelphia, are Engrs.

*BRADFORD, PA.—Bids will be received by the Board of Water Commissioners until Sept. 20 for the enlargement of Reservoir No. 2, Colbert Run, to consist of the following material, etc.: Excavation, 50,000 cu. yds.; stone masonry, 4,500 cu. yds.; concrete masonry, 500 cu. yds.; rip-rap paving, 4,000 sq. yds.; clearing and grubbing, 33 acres, with gate-house and necessary piping and valves, etc. The present dam will be raised 20 ft. by producing the water slope and widening on down-stream side.

NATIONAL SOLDIERS' HOME, VA.—Bids will be received by John T. Hume, Treas., Southern Branch, N. H. D. V. S., National Soldiers' Home, until 1.30 p. m., Sept. 18, for labor and material for connecting water system to new power house and steam pipes, quartermaster's storehouse to steam tunnel.

*PARKERSBURG, W. VA.—Bids will be received until 7 p. m., Sept. 16, by Frank Good, City Audr., for furnishing and delivering approximately 800 tons of 20-in. c.-i. pipe, 18½ tons c.-i. specials, 13 tons flange pipe and specials, 974 tons 6 and 12-in. c.-i. pipe and 38 tons specials.

GREENSBORO, N. C.—The Colored Agricultural and Mechanical College has had plans prepared by Hook & Rogers, Charlotte, N. C., for water and sewerage plants for the college.

*MARIETTA, GA.—The date of opening bids for furnishing all materials, machinery and constructing a system of water-works here has been extended to Oct. 5 from Sept. 20. J. B. McCrary & Co., Empire Bldg., Atlanta, Ga., are Engrs.

ALEXANDRIA, LA.—The citizens on Aug. 17 voted to issue $40,000 of bonds for extension of the water-works and electric light plant. J. W. Sylvester is City Engr.

CHATTANOOGA, TENN. — Preliminary work looking to the preparation of plans and specifications for the construction of a new water-works plant for Chattanooga was begun on Aug. 19 by Walter G. Kirkpatrick, Consulting Engr., Jackson, Miss.

BRADFORD, OHIO.—Bids will be received by the Board Trustees of Public Affairs, J. A. Crowell, Clk., until Oct. 6, extension of date from Aug. 16, for furnishing material and constructing water-works. Toney C. Hefel, of Muncie, Ind., is Engr.

NATIONAL MILITARY HOME, OHIO.—Contract for increasing and improving water-works, bids opened on Aug. 17, has been awarded to JAMES KENNEY, JR., of Bellaire, at $18,995. W. H. Ortt is Treas.

COLUMBUS, OHIO.—Bids are asked until Sept. 10, by the Board of Managers, Ohio State Penitentiary, for the installation of a water-softening plant.

COLUMBIA CITY, IND.—See item under Light and Power Plants.

SHIRLEY, IND.—Bids are asked until Sept. 15 by the town for the construction of water-works, including tower and tank, air compressor, displacement pump, electric motor, pipe, hydrants, valves, etc. George C. Wallace is Engr., 420 E. Eighth St., Anderson, Ind.

CHICAGO, ILL.—Contract for constructing foundations for boiler room at Roseland pumping station, bids opened on Aug 28, has been awarded to the ATLAS CONSTRUCTION CO., 84 Washington St., at $17,364. John J. Hanberg is Comr. Pub. Wks.

MILWAUKEE, WIS.—The Board of Public Works has awarded contract for boring for water conduit under Milwaukee River, between Ferry and East Water Sts., to D. WEST CONSTRUCTION CO., Milwaukee, at $1.90 per ft. Bids were opened on Aug. 20.

ST. JOHNS, KAN.—Burns & McDonnell, Kansas City, Mo., have prepared plans for water-works for St. Johns. Estimated cost, $25,000.

ERIE, KAN.—See item under Light and Power Plants.

FORT LEAVENWORTH, KAN.—Bids will be received by Capt. Wm. D. Davis, Q. M., U. S. A., until 11 a. m., Sept. 15, for constructing water mains in McPherson and McClellan Aves. at this post.

FARGO, N. DAK.—Bids will be received until 5 p. m., Sept. 13, by N. C. Morgan, City Audr., for constructing 6-in. mains in First Ave. and Fourth St. in water main district Nos. 1 and 2, respectively.

*CASPER, WYO.—Bids will be received at the office of the United States Reclamation Service, 423 Commonwealth Bldg., Denver, Colo., until 2 p. m., Oct. 28, for building the Pathfinder dike, situated about 45 miles southwest of here, and involving about 100,000 cu. yds. of earth excavation, 8,000 cu. yds. of pavement and 2,000 cu. yds. of concrete masonry. Frank Pierce is Acting Secy.

ROUNDUP, MONT.—Contract for pumping machinery, water mains and fire hydrants for the Water Co. has been awarded, it is reported, to FAIRBANKS, MORSE & CO., of St. Paul, Minn., at about $22,000.

CARTERSVILLE, MO.—The city will construct water-works; plans installing deep-well pumps and 100,000-gallon tank on 100-ft. steel tower. W. B. Roberts is Mayor.

LEONARD, TEX.—The city has voted bonds to drill an artesian well and install water-works system.

FORT WORTH, TEX.—The city has voted $450,000 of bonds for water-works improvements.

FORT GIBSON, OKLA.—Bids will be received by E. A. Hill, Town Clk., until Sept. 16 for the construction of water-works. M. A. Earl & Co., of Muskogee, are Engrs.

CRESCENT, OKLA.—See item under Light and Power Plants.

TAHLEQUAH, OKLA.—This city has voted $60,000 of bonds for the purchase of the city water-works and for improving the plant. Frank R. Lewis is City Engr.

CADDO, OKLA.—The city has awarded contract for construction of water-works from plans of M. A. Earl & Co., Muskogee, Okla. Estimated cost, $51,000.

WAGONER, OKLA.—The city has voted $200,000 of bonds for water-works, electric light plant and city hall.

*McALESTER, OKLA.—Bids are asked by J. M. Gannaway, City Clk., until 8 p. m., Sept. 21, for furnishing the material and performing the work of repairing the water-works dam with interlocking steel piles 28 ft. long (37.187 lbs. per ft.), width 50 ft., in earthen dam.

OKEMAH, OKLA.—We are officially advised that the SQUIRE ELECTRIC & CONSTRUCTION CO. has been awarded contract by the town for the construction of the water and light plant, at $43,189. They are in the market for boilers, engine, generator, motor, triplex pumps, c.-i. pipe, copper wire and poles. M. A. Earl & Co., Muskogee, Okla., are Engrs.

WETUMKA, OKLA.—We are officially advised that the FEDERAL ENGINEERING & CONTRACTING CO., of Okmulgee, Okla., has been awarded contract for the construction of water-works here. Estimated cost, $40,000.

LIMON, COLO.—At an election held here recently in the proposed irrigation district of Lincoln County to take in about 10,000 acres south of here and to be known as the Big Sandy Irrigation District, it was decided to bond the district for $250,000.

DENVER, COLO.—The Denver Power & Irrigation Co., of Denver, is planning to construct a portion of their plant in the South Platte River, southwest of Denver. The company will be ready to receive bids for the construction of the Geneva Lake reservoir and the construction of the No. 3 plant, situated about 35 miles southwest of Denver, on Sept. 15.

Articles of incorporation have been filed with the Secretary of State incorporating the Pueblo and Rocky Ford Ditch Co. The object of the company is to take over the property of the Orlando Canal & Reservoir Co. The incorporation is for $2,000,000. W. F. Lester, of Pueblo; William Cox, of Chicago, and Fred Harris, of Chicago, are interested.

PUEBLO, COLO.—George W. Skinner, of Denver, on Aug. 19, filed with the County Clerk a map of a pipe line which is for the purpose of developing a domestic supply of water for the city of Pueblo, for irrigation and manufacturing purposes. The system is designated the Squirrel Creek Pipe Line and will take its supply of water from the underflow of Squirrel Creek, northeast of Pueblo. The plans call for an expenditure of $277,725. A portion of the pipe line will be of 38-in. pipe and the remainder of 26-in. The line will carry 20 cu. ft. of water per sec.

SUNNYSIDE, WASH.—The Secretary of Interior has awarded contract to H. W. HAWLEY, Seattle, Wash., for the construction of Sulphur Creek wasteway channel and structures in connection with the Sunnyside Irrigation project. The work includes the construction of 4½ miles of channel, involving about 225,000 cu. yds. of excavation and the placing of about 1,600 cu. yds. of rip-rap. The contract amounts to $65,062.

Bids were opened at the office of the U. S. Reclamation Service, Miller Bldg., North Yakima, on July 30, for the construction of Sulphur Creek wasteway, near Sunnyside. Contract has been awarded to GEORGE COOK & SON, of Minneapolis, Minn., at $26,248. List of bidders noted on Aug. 26.

NORTH YAKIMA, WASH.—The City Council has decided to issue $300,000 of bonds for the construction of a water system here.

PORTLAND, ORE.—The Water Board is making plans and estimates on a 12 or 16-in. main to connect the city system with the Mt. Scott water system. Estimated cost, between $50,000 and $75,000.

GOLD HILL, ORE.—An adequate water system is to be installed here in the fall. The plans include the laying of a 4-in. pipe line in addition to the 3-in. pipe now in use between the power-house and the reservoir, and the installation of a new pump.

WINTERS, CAL.—The Colano-Yolo Land & Water Co. has been incorporated, it is reported, by C. M. Wooster, 1141 McAllister St., San Francisco, and others, to construct an irrigation system, including dams and canals in Yolo and Solano Counties for the benefit of the districts around Winters, Dixon and Davis.

SAN BERNARDINO, CAL.—The Consolidated Reservoir & Power Co. has been incorporated, it is reported, with a capital of $1,000,000 to construct a reservoir in Riverside County on Elsinore Lake for irrigation and power purposes. Edwin Moore, Los Angeles, is Pres.; W. B. Scarborough, Monrovia, is Secy.

SACRAMENTO, CAL.—The Putah Irrigation Co. has been incorporated, it is stated, with offices at 620 J St., to irrigate about 10,000 acres of land lying south of Putah Creek. The main irrigating canal will extend along south bank of Putah Creek. M. A. Nurse is Ch. Engr.

The Sacramento Valley Irrigation Co. has been incorporated, it is reported, with a capital of $10,000,000, to construct an irrigation system for Yolo, Lake and Glenn Counties. A dam will be constructed at Clear Lake. The Delaware Trust Co., of Wilmington, Del., is reported interested.

COALINGA, CAL.—The Fresno Light & Power Co. will expend $750,000, it is reported, in laying piped and installing the new water plant here.

SAN FRANCISCO, CAL.—Plans are nearing completion for Contract No. 34, for constructing the Van Ness Ave. pumping station, including mechanical equipment; also for the fresh water pumping station and for cast-iron specials. Marsden Manson is City Engr.

SALT LAKE CITY, UTAH.—Bids will be received until Sept. 17 by the Board of Public Works, H. G. McMillan, Chn., for constructing the N. Tempe St. aqueduct across W. Temple, First West and Second West Sts. Louis C. Kelsey is City Engr.

The Mosida Irrigation Co. has filed articles of incorporation, capitalized at $12,000. L. B. Curtis, of Denver, Colo., is Pres.

MERIDIAN, IDAHO.—We are officially advised that the city contemplates the immediate installation of a water supply capable of furnishing water to a population of 5,000 people. They will probably retain John Walter Johnson, Contracting Engr., 804 Monadnock Bldg., Chicago, Ill., as engineer to design same, who desires catalogues, data, information, etc., of water-tanks, compressors, 15,000 ft. of 4, 6 and 8-in. water mains, hydrants, valves, etc.

TORONTO, ONT.—Bids will be received until Oct. 5 for 1,680 lengths of 16-in. c.-i. pipe and 16-in. valves. Joseph Oliver is Mayor. C. H. Rust is City Engr.

VICTORIA, B. C.—Bids are asked until Sept. 15 by the Esquimalt Water-Works Co. for the supply of 900 tons of c.-i. socket pipes and special castings. T. Lubbe is Secy.

TORREON, MEX.—According to the "Boston Evening Transcript" the largest individual irrigation enterprise in Mexico is now being established upon the plantation of Lazaro Villareal Madero, situated near Torreon. The canal system which is now being built will cover approximately 50,000 acres of land. The water supply will be obtained from artesian wells, a number of which are now being bored. The flow of these wells will be conserved in great earthen reservoirs. More than $2,000,000 gold will be expended in constructing this great system of irrigation.

SASKATOON, SASK.—Bids will be received by William Hopkins, Mayor, until 5 p. m., Sept. 22, for a centrifugal pump, labor and material for laying pipe, c.-i. manholes, vitrified pipe for drains, all of which is in connection with the proposed subway to cost $70,000. G. T. Clark is City Engr.

SEWERAGE.

NEW YORK, N. Y.—Bids are asked by Lawrence Gresser, Pres. Boro. of Queens, until 11 a. m., Sept. 17, for constructing sewers in various streets in the Borough of Queens.

*BATAVIA, N. Y.—Bids will be received by the Board of Sewer Commissioners until 10 a. m., Sept. 25, for the construction of a system of sewers. The contracts will be divided as follows: Contract No. 1, approximately 30 miles of sanitary sewers and appurtenances; contract No. 2, approximately 4,200 ft. of 16-in. c.-i. force main; contract No. 3, a pumping well and fittings; contract No. 4, approximately 4,000 ft. of storm water and effluent sewer; contract No. 5, an extension to the present municipal building. There will also be required one 100-HP. Corliss engine, one 250-HP. Scotch marine boiler, three centrifugal pumps and sundries. Charles Hoopes is Resident Engr.

AUBURN, N. Y.—Bids were opened on Aug. 17 for the construction of sewage disposal plant for the first, sixth and tenth wards sewer district. Contract has been awarded to BRAYER BROS., of Auburn, as follows: For excavating earth and boulders containing 10 cu. ft. and under, 27,500 cu. yds., 35 cts.; excavating rock and boulders containing more than 10 cu. yds., 75 cu. yds., $2.75; grading, 3,000 cu. yds., 35 cts.; concrete, 1,110 cu. yds., $8; steel rods for concrete masonry reinforcement 80,000 lbs., 4 cts.; steel fabric for reduction and dosing tank roofs, 8,000 lbs., 5 cts.; steel fabric for concrete footings, 8,000 lbs., 5 cts.; stone in place for contact beds, 9,000 cu. yds., $1.05; vitrified tile laid in and about contact beds and concrete walls, 24-in. pipe, 472 lin. ft., $1; 646 lin. ft. 15-in. pipe, 51 cts.; 1,050 lin. ft. 12-in., 38 cts.; 1,270 lin. ft. 10-in., 25 cts.; 1,950 lin. ft. 8-in., 20 cts.; 1,180 lin. ft. 6-in., 15 cts.; for all other materials and labor required, not included by the above lump sum $3,500; total, $38,790. Other bidders were: McClenathan & Jones, Auburn, $39,921; Clinton Beckwith, Herkimer, $40,593; Albert L. Willey, Binghamton, $40,860; Charles Inodilto, Auburn, $40,857; Parker & Beebe, Waterford, $41,498; I. M. Ludington & Sons, Rochester, $42,515; Fitzgerald & Co., Syracuse, $49,960. The PACIFIC FLUSH TANK CO., INC., New York, secured contract for the automatic feeding and discharging appliances for the contact beds, four sets complete, at $2,250. W. Thomas Wooley is City Engr.

FORT TERRY, N. Y.—Contract for the construction of roads and for making extensions to the water and sewer system at Fort Terry is reported to have been awarded to ALFRED FARLEY & CO. of New London, Conn., at about $14,000. Bids were opened on Aug. 14.

*FORT LEE, N. J.—Bids were opened by the Mayor and Council on Aug. 18 for the construction of a portion of the Dead Brook sewer, including the outlet into the Hudson River. Contract has been awarded to EDWARD P. O'NEILL, of Jersey City, at $27,695. Other bids were: George M. Brewster, Hackensack, $32,442; O'Reilly Bros., Jersey City, $29,247; Golosso & Troiano, Jersey City, $32,277; Ernest Abrahams, Hackensack, $31,975; J. W. Edwards Construction Co., Jersey City, $31,173.

HACKENSACK, N. J.—D. AMATO & STEFANELLI, of Newark, have secured the contract for constructing pipe sewers in Grove St., Valley Ave. and Lodi St., at $11,726. Bids were opened on Aug. 16 by the Hackensack Improvement Commission.

*BORDENTOWN, N. J.—Bids are asked by the President of the Board of Sewer Commissioners until 8 p. m., Sept. 23, for the construction of a sewer system and disposal works. For details see advertisement in this issue.

WERNERSVILLE, PA.—Bids will be received by the Trustees of the State Asylum for Chronic Insane, Henry M. Dechard, Secy., until Sept. 14, for the construction of a sewage disposal plant, and connections to existing sewer system at the institution.

PHILADELPHIA, PA.—Contract for the construction of two main sewers in the northern part of the city was awarded on Aug. 31 by George R. Stearns, Dir. Pub. Wks., to EDWIN H. VARE, Pennsylvania Bldg., at about $40,000.

DANVILLE, PA.—We are officially advised that Charles E. Collins, Drexel Bldg., Philadelphia, has completed surveys for a complete sanitary sewerage system and sewage disposal plant for this city. The sewerage system will have about 20 miles of pipe sewers varying in size from 6 to 30 ins. in diameter. The sewage disposal plant will consist of a sewage pumping station, septic tanks and sprinkling filters.

ANNAPOLIS, MD.—Bids for laying the sewer on Revell St., from Shipwright St. to Spa Creek, were opened on Aug. 30 by the city. Contract was awarded to CHARLES A. HOWARD at 45 cts. per ft. The bid of D. V. Bright was 46 cts. per ft.

WASHINGTON, D. C.—Contract for furnishing terra cotta sewer pipe and T branches for the district government during the fiscal year ending June 30, bids opened on Aug. 23, has been awarded by the District Commissioners to the AMERICAN SEWER PIPE CO., Bessemer Bldg., Pittsburg, Pa.

BECKLEY, W. VA.—The city has plans for constructing 10,000 of 10 and 12-in. sewers. F. A. Cloud is City Engr.

PARKERSBURG, W. VA.—The Board of Affairs has adopted resolutions appropriating funds for construction of storm and sanitary sewers on certain streets in the Fifth Ward.

GREENSBORO, N. C.—The Colored Agricultural and Mechanical College has accepted the plans of Hook & Rogers, Charlotte, N. C., for sewerage and water plant for the college.

WILMINGTON, N. C.—The city will construct a sewer system.

NEW DECATUR, ALA.—Bids will be received by the city until 8 p. m., Sept. 15 for the construction of a sewer system. Estimated cost, about $10,000. W. A. McCalla, of Decatur, is Engr.

DOTHAN, ALA.—The city has voted $8,000 of bonds for constructing sewer extension.

BROOKHAVEN, MISS.—Plans and specifications for the proposed sewer system for this city have been prepared by Albert T. Witbeck, City Engr.

ELIZABETHTON, TENN.—The city has awarded contract to R. L. BLEVINS, Bristol, for sewer construction. Charles Toncray, of Elizabethton, is Engr.-in-Charge.

CHATTANOOGA, TENN. — The Central Improvement Co., Ferger Bros., Agents, 102 East Eighth St., Chattanooga, has awarded contract to WEST CONSTRUCTION CO., 1007 Market St., Chattanooga, for construction of 2,600 ft. of tile pipe sewers in Hickory and Holly Sts., Ferger Pl.

*LOUISVILLE, KY.—Bids were opened by the Commissioners of Sewerage, W. C. Nones, Chn., on Aug. 27 for constructing South-Louisville Branch-Section C, Contract 51. Contract has been awarded to the AMERICAN ENGINEERING & CONSTRUCTION CO., 12 Clark St., Chicago, Ill., at about $80,000. J. B. F. Breed is Ch. Engr., Louisville; Harrison P. Eddy, 14 Beacon St., Boston, Mass., is Consulting Engr.

MADISONVILLE, KY.—The city will construct a system of sanitary sewers here. Jas. L. Brown is City Clk.

SEBRING, OHIO.—The citizens have voted to issue $25,000 of bonds for the construction of a sewer system and disposal plant. J. M. Hall, of Canton, is Engr.

BROOKVILLE, IND.—The Town Council has awarded contract, it is reported, for constructing the drainage sewer to LEE, EVEROAD & CO., of Columbus, Ind., at $6,933.

ANGOLA, IND.—Bids will be received until 6 p. m., Sept. 17, for the construction of laterals to the main trunk sewer now under construction. Roy Hirst is City Clk.

SOUTH HAVEN, MICH.—Bids will be received by Arthur Ryall, City Clk., until Sept. 10 for the construction of about 2,600 ft. of 8 and 10-in. pipe sewers, with appurtenances, on Broadway, Superior and Van Buren Sts.

LEWISTON, ILL.—Bids will be received about Nov. 1 for the construction of a sewer system. Estimated cost about $30,000. C. W. Brown, of Jacksonville, is Engr.

BELOIT, WIS.—G. MAFFO'J, of Rockford, Ill., secured contract on Aug. 21 for sewer work, as follows: 4,900 ft. 8-in. vitrified pipe, 62 cts.; 875 ft. 20-in. vitrified pipe, 90 cts.; 20 manholes, each $30.

MILWAUKEE, WIS.—The Board of Public Works has awarded contract for laying 1,325 ft. of concrete sewer in Montana and Chicago Sts., to R. J. HICKEY, Milwaukee, at $17.14 per lin. ft.

JANESVILLE, WIS.—Bids will be received by the Street Assessment Committee until 2 p. m., Sept. 20, for furnishing all the material and doing all the work necessary and required for the construction and completion of sewers in various streets.

CLARINDA, IOWA.—Bids will be received by C. W. Stuart, City Clk., until Sept. 14 for constructing about 13,602 ft. of 18 to 6-in. sanitary sewers.

CEDAR RAPIDS, IOWA.—Bids will be received until Sept. 13 by L. J. Storey, City Clk., for constructing sanitary sewers in Crescent St., B and I Aves., and two alleys requiring 6 to 12-in. vitrified pipe.

ALBERT LEA, MINN.—TANNER BROS., of Minneapolis, were awarded contract on Aug. 19 by the city for constructing the trunk sewer at $23,980. Other bids were: Helmers & Eitel, of Minneapolis, $24,360; J. W. Turner Improvement Co., Des Moines, Iowa, $28,460; Cook Construction Co., Des Moines, $26,134; Illstrup & Olson, Minneapolis, $27,730; Fraser & Danforth, Rochester, $28,564. W. T. Barneck is City Engr.

ERIE, KAN.—See item under Light and Power Plants.

MARION, KAN.—Bids were opened on Aug. 24 by the city for furnishing material and constructing pipe sewers in districts 4 and 5. Contract has been awarded to the SQUIRE ELECTRIC & CONSTRUCTION CO., 614 Wyandotte St., Kansas City, at $25,584. J. W. Mavity is Engr.

CRAWFORD, NEB.—Plans have been prepared for a sewer system here. An election will be held before anything definite is done.

STROMSBURG, NEB.—Bids are asked until noon, Sept. 15, by the Stromsburg Sewer Co., C. V. Nelson, Secy., for the construction of a sanitary sewer system. The approximate quantities are as follows: 880 lin. ft. of 6-in. pipe sewer; 13,294 lin. ft. 6-in. pipe sewer, 1,268 lin. ft. 10-in. pipe sewer, 900 lin. ft. 12-in. pipe sewer, 33 manholes, five flush tanks, concrete outlet.

NEWKIRK, OKLA.—Contract for constructing a sewer system, about eight miles, of 8 to 15-in. vitrified pipe, bids opened on Aug. 20, has been awarded to E. M. EBY, of Wellington, Kan., at $23,801. M. A. Earl & Co., of Muskogee, are Engrs.

PERRY, OKLA.—F. W. Bobbitt, City Engr., has been instructed by the City Council to engage F. H. Lancashire, Engr., of Dallas, Texas, to design a sewage disposal plant for this city.

ELK CITY, OKLA.—F. H. Lancashire, Engr., has been retained by the City Council to design a sewage disposal plant for this city. R. J. Carlile is City Clk.

TAHLEQUAH, OKLA.—The citizens have voted to issue $30,000 of bonds for the construction of a sewer system. Frank R. Lewis is City Engr.

BELLINGHAM, WASH.—H. W. Troutman, City Engr., has estimated the cost of constructing a concrete pipe trunk sewer to drain Meridian St. district at $19,242.

SPOKANE, WASH.—The City Council has passed ordinances providing for the construction of sewers in portions of 26th and 13th Aves. and Howard St.

SPOKANE, WASH.—Bids will be received about Sept. 20 for the construction of a trunk sewer to care for the sewage from Cannon Hill Park addition. J. C. Ralston is City Engr.

BAKER CITY, ORE.—J. G. WHITE & CO. have been awarded contract for constructing storm sewers at $6,116.

OGDEN, UTAH.—Bids are asked until 2 p. m., Sept. 13, by A. F. Parker, City Engr., for constructing sewers in sewer district No. 100.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

BROOKLINE, MASS.—The following bids have been received by the Selectmen for paving Village Sq. and Washington St.: T. J. Kelly, $36,640; D. F. O'Connell, 6 Beacon St., Boston, Mass., $29,486; F. H. Cowin, Old South Bldg., Boston, $29,484; J. H. Ferguson, Equitable Bldg., Boston, $29,406; James Driscoll & Son, 82 Washington St., Brookline, $29,245; John McCourt, $28,842; Simpson Bros. Corporation, 66 Devonshire St., Boston, $28,179; Worcester Paving Co., $27,571; Cofflin & Shields, $27,481; John E. Burns, $26,827; B. F. Carroll & Co., $26,144.

HARTFORD, CONN.—Contracts for the construction of state road work, bids for which were opened Sept. 2, have been awarded by the State Highway Commissioner as follows: Town of Stafford, 13,800 lin. ft. gravel-telford, 16 ft. wide, including two 15-in., two 18-in. and one 20-in. tile culverts, to A. D. BRIDGE'S SONS, Hazardville, Conn., $1.94 per lin. ft. for gravel, $2.54 for telford, $6 per cu. yd. for walling, 60 cts. per sq. yd. for gutters, 60 cts. per lin. ft. for railing. Other bidders were: Goodman & Trumbull, Litchfield, Conn., $2.16, $2.80, $3, 65 cts. and 45 cts. A. Brazos & Sons, Middletown, Conn., $2.44, $2.84, $5.50, 50 cts. and 55 cts.

Town of East Granby, 2,800 lin. ft. gravel-telford, 16 ft. wide, including one 12-in., one 15-in. and one 18-in. tile culverts, to W. W. VIETS, Chn. Board of Selectmen, East Granby, Conn., 95 cts. per lin. ft. for gravel and $1.45 for telford. Other bidders were: Donahue Bros., Middletown, $1.07 and $1.77; Goodman & Trumbull, Litchfield, $1.22 and $1.90; A. Brazos & Sons, Middletown, $1.18 and $1.48; Lane Construction Corporation, Meriden, Conn., $1.08 and $1.68.

Town of West Hartford, 2,300 lin. ft. macadam-telford, 16 ft. wide, including grading on excess width, (a) macadam, (b) telford, (c) cobble gutters, (d) concrete gutters, (e) extra grading: To A. BRAZOS & SONS, Middletown, (a) $2,235, (b) $4,720, (c) 80 cts. sq. yd., (d) $1.75 sq. yd., (e) $4,200; A. C. Sternberg & Son, West Hartford, Conn., was the other bidder. Their figures: (a) $2,509 (b) $4,890, (c) 54 cts., (d) $2.55, (e) $4,830.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Sept. 15, for regulating, grading and paving various streets in Brooklyn.

Bids are asked by Lawrence Gresser, Pres. Boro. of Queens, until 11 a. m., Sept. 17, for regulating, rading and paving on various streets and for furnishing granite paving blocks in the Borough of Queens.

NEW YORK, N. Y.—The following bids were received on Aug. 31 by John F. Ahearn, Pres. Boro. of Manhattan, for regulating and repaving with asphalt block pavement on a concrete foundation the roadway of the following streets and avenues: Gansevoort Ave., from the west side of 13th St. to the east side of West Broadway: J. Fitzgerald, 547 West 45th St., $17,468; Atlanta Contracting Co., $18,698; Rafferty Bros., 624 West 52d St., $16,925. Waller St., from the west side of Lafayette St. to the east side of West Broadway: J. Fitzgerald, 547 West 45th St., $14,652; Atlanta Contracting Co., $15,115; Rafferty Bros., 624 West 52d St., $14,827; Mathew Beard Contracting Co., $16,263; Asphalt Construction Co., Madison Ave. and 137th St., $16,015. Second Ave., from the north side of 37th St. to the north side of 45th St., and from the north side of 53d St. to a point 66 ft. north of the north curb line of 58th St.: Barber Asphalt Paving Co., 30 Church St., $73,993; Harlem Contracting Co., 1618 Lexington Ave., $61,632; Sicilian Asphalt Paving Co., 41 Park Row, $54,095.

Bids were received at the same time for regulating and repaving with sheet asphalt pavement on a concrete foundation the roadway of the following streets and avenues: Christopher St., from Waverley Pl. to the east side of Greenwich Ave.: Barber Asphalt Paving Co., 30 Church St., $12,087; Uvalde Asphalt Paving Co., 1 Broadway, $11,628; Sicilian Asphalt Paving Co., 41 Park Row, $11,613. Morton St., from the west side of Bleecker St. to the east side of Washington St.: Barber Asphalt Paving Co., $14,004; Uvalde Asphalt Paving Co., $12,607; Sicilian Asphalt Paving Co., 41 Park Row, $12,911. Charlton St., from the west side of Macdougal St. to the east side of Greenwich St.: Barber Asphalt Paving Co., 30 Church St., $16,360; Uvalde Asphalt Paving Co., 1 Madison St., $14,912; Sicilian Asphalt Paving Co., 41 Park Row, $12,911. Fort Washington Ave., from the west side of Broadway to the south side of 181st St.: Barber Asphalt Paving Co., 30 Church St., $78,806; Harlem Contracting Co., 1618 Lexington Ave., $77,944. Second Ave., from the north side of 45th St. to the south side of 48th St.: Rafferty Bros., 624 West 52d St., $12,600; W. J. Fitzgerald, 547 West 45th St., $13,081; Atlanta Contracting Co., $13,801; Mathew Beard Contracting Co., $14,194.

FORT TERRY, N. Y.—See item under Sewers.

*RYE, N. Y.—Bids are asked by George L. Henderson, Village Clerk, until 8 p. m., Sept. 15, for macadamizing Purchase and Orchard Sts., and Locust Ave. C. E. Nightingale.

ALBANY, N. Y.—The bids received on Sept. 2 by the State Highway Commission for the repair and resurfacing of State roads were: Delaware County: Repair Contract No. 46, Griffins Corner Road No. 36, town of Middletown, and Grand Gorge Road No. 217, town of Roxbury: JOHN C. CREEDEN, New York, $11,800 (awarded contract). Chemung County: Repair Contract No. 47, Southport Road No. 13, Sec. 1, Southport Road No. 28, Sec. 2, and South Broadway Road No. 30, town of Southport: John H. Gordon, Albany, N. Y., $33,884; CASEY & MURRAY, Rochester, N. Y., $27,883 (awarded contract); John C. Bradley, Corning, N. Y., $29,523. S. Percy Hooker is Chn. of Comn.

PITTSBURG, PA.—The following bids have been received by the Allegheny County Commissioners here for the construction of the new county road between Lock No. 3 and Elkhorn: A. G. Ratsey & Co., $54,882; McLaughlin Paving Co., 7029 Kelly St., $55,696.80, and Joseph Nixon, $57,523.88.

UPPER MARLBORO, MD.—Bids will be received until Sept. 14 by the Board of County Commissioners for improving the Brandywine and Riggs Roads, requiring about 1¾ miles of macadamized road. H. St. J. L. Briscoe is Clerk.

MIDDLEBOURNE, W. VA.—The contract for paving S. & S. turnpike has been awarded to PUTNAM & PRICE, of Marietta, Ohio, at $1.08 per sq. yd. Total, $24,000. J. W. Duty is Clerk County Comrs.

ATLANTA, GA.—The Druid Hills Co. has awarded the contract for laying 14 miles of curbing and sidewalks in Druid Hills to the GEORGIA GRANITE CO., Chandler Bldg., at about $35,000.

FORT OGLETHORPE (Dodge post-office), GA.—Bids are asked by Capt. W. M. Rowell, Constr. Q. M., until 11 a. m., Sept. 29, for walks necessary for new buildings at this post.

HUNTSVILLE, ALA.—Bids are asked until Oct. 5 to pave, curb and otherwise improve Holmes St., 40,000 sq. yds. pavement and 14,000 ft. curb and gutter. Thomas W. Smith is Mayor.

ASHLAND, KY.—Bids are asked until 7 p. m., Sept. 13, by E. A. Shepard, City Clerk, for furnishing all labor and material for the construction of vitrified brick pavement with concrete curb and gutter and header for same. The approximate quantities included in the contract are as follows: 44,800 sq. yds. of paving, 24,490 lin. ft. of curb and gutter with catch basins for same, 4,000 lin. ft. of concrete header.

KENNEDY, OHIO.—Bids are asked until noon, Sept. 11, by O. W. Bennett, Village Clerk, for the following street improvements: Fern Ave., from the east line of Ridgeway Ave. to the west line of the right-of-way of the Cincinnati, Lebanon & Northern Railway Co., by grading, and by placing broken stone thereon for a width of ten feet and a depth of six inches, and constructing the necessary drains, culverts and inlets. Fern Ave., from the east line of Ridgeway Ave. to a point 581.25 ft. east of the east line of Ridgeway Ave., by constructing an artificial stone sidewalk on the south side thereof. Ridgeway Ave., from the southern terminus of the sidewalk as now constructed to the center line of Central Ave., by constructing an artificial stone sidewalk on the west side thereof. Ridgeway Ave., from the south line of Euclid Ave. to the center line of Central Ave., by grading and placing broken stone thereon for a width of twelve feet and a depth of six inches, and constructing the necessary culverts, drains and inlets.

BELLEFONTAINE, OHIO.—Bids are asked until Sept. 17 (change of date) by the Board of Public Service, Vance Horn, Clk., for paving South Detroit St., the work including about 6,700 sq. yds. of brick paving. Clair A. Inskeep is City Engr. Estimated cost, $16,000.

OSNABURG, OHIO.—Bids are asked by the Trustees of Osnaburg Township until noon, Sept. 15, for grading two hills on the Canton-Osnaburg Road, about one mile west of Osnaburg. C. G. Mongis Township Clerk.

XENIA, OHIO.—We are officially advised that WILSON & DEAN, of Xenia, have secured contract for constructing the Xenia and Wilmington Road, at $9,712.

COLUMBUS, OHIO.—We are officially informed that J. M. SNOUFFER, of Columbus, has secured contract for paving Fuller Mill Road, with macadam, with Indian Refining Co.'s treatment, for $9,410.

CINCINNATI, OHIO.—Bids will be received until noon, Sept. 14, by the Board of Public Service for improving Spring Grove Ave. with either wood blocks, bitulithic or granitoid concrete block pavement; also Kenyon Ave. by grading, curbing and paving with asphalt. John J. Wenner is Clerk.

Bids are asked by the Board of County Commissioners until noon, Sept. 17, for improvements under specifications No. 960, of the Loveland and Madeira Road, between Loveland and Remington, in Symmes Township. Fred Dreihs is Clerk.

Bids will be received by the Board of County Commissioners until Sept. 24 for road improvements, under the following specifications: No. 861, Dry Ridge Road in Colerain Township; No. 929, Snyder Road in Green Township; No. 953, Plainville Pike in Columbia Township.

TOLEDO, OHIO.—Bids will be received until Sept. 14 by the Board of Public Service for paving Defence and 22d Sts. with either vitrified block, sheet asphalt, asphalt block or creosoted wood block. Reynold Voit is Secy.

HAMILTON, OHIO.—Bids are asked by the Board of Public Service, until noon, Sept. 11, for the improvement of G St., from Ross Ave. to Millikin St., by grading, graveling, curbing and guttering and paving sidewalks with cement. C. L. A. Dillon is City Engr.

BELLAIRE, OHIO.—Bids are asked until Sept. 14 by the Board of Public Service for laying sidewalks, setting curbs, etc. R. E. Crow is Clerk.

NOBLESVILLE, IND.—Bids are asked until 8 p. m., Sept. 10, by the County Commissioners for the construction of four gravel roads. N. W. Cowgill is Comr. of Hamilton County.

ELKHART, IND.—The following are the bids received Aug. 13 by the Board Public Works for paving: Franklin St., from Second to Marion. H. P. Stryker Co., of Toledo, Ohio, $29,767. Trinidad asphalt, $28,000 Obisco; S. S. Saxton Co., Chicago, Ill., $27,901, asphalt: Andrews Asphalt Paving Co., Hamilton, Ohio, $28,900 Trinidad, $24,095 Obisco, $30,291 asphalt block; Peters Bros. Co., Chicago, $26,853 Obisco. From Marion to Indiana Ave., Rankert & Co., Mishawaka, Ind., Metropolitan block, $26,489 without filter, including street car tracks, $27,504 with filter; Peters Bros. Co., Obisco, including car tracks, $23,223, asphalt outside tracks and brick between tracks, $23,176; S. S. Saxton Co., asphalt outside tracks and brick between tracks, $23,436; Cain Construction Co., Gary, Ind., Metropolitan block, $25,334, including tracks. Johnson and Edwardsburg Aves. and Front St., Tarvia filled macadam, H. G. Meyrick & Co., $21,526 Rankert & Co., $23,069.

RUSHVILLE, IND.—The Commissioners of Rush County have awarded a contract for the construction of the County Line Road to GREENWOOD & CONNER, of Connersville. The contract is for a macadamized road.

GARDNER, ILL.—Bids will be received by the Village Board of Trustees until Sept. 13 for constructing about 8,000 sq. ft. of concrete cement sidewalk. J. R. Suffern is Village Clk.

CHICAGO, ILL.—Bids will be received until Sept. 10 by John J. Hanberg, Comr. Pub. Wks., for furnishing and delivering to the various ward yards all the cedar blocks that may be required during the term ending June 30, 1910.

AURORA, ILL.—The following bids have been received for paving (a) Galena, Chestnut and May Sts., (b) Seminary Ave., and (c) South Ave.: A. Jaicks & Co. (a) $51,710, (b) $16,250, (c) $12,097; Barber Asphalt Paving Co. (a) $51,710, (b) $16,936, (c) $12,607; Peter Bros. (a) $46,791, (b) $14,830, (c) $11,039; McCarthy Co. (a) $45,809, (b) $14,682, (c) $10,927; Conway Co. (a) $47,634, (b) $15,414, (c) $11,508, and J. F. Hill Co. (a) $48,815, (b) $15,858 and (c) $11,764.

*PARIS, ILL.—We are officially advised that on Sept. 3 the contract for constructing 5,600 sq. yds. of pavement on South Central Ave. has been let to ALLEN J. PARRISH, at $8,855. The entire work to be done embraces 11,368 sq. yds. and is estimated to cost $23,560. C. P. Lycan is City Engr.

JANESVILLE, WIS.—Bids a[illegible] asked by the Street Assessment Commit[illegible] until 2 p. m., Sept. 17, for the following [illegible]: North First St., from North Main [illegible] Wisconsin Sts.; Division St., from East [illegible]waukee to Court Sts., and from St. Law[illegible] to Oakland Aves.; West Bluff St., [illegible]m North Academy to Terrace Sts., to be [illegible]proved by the construction of combined [illegible]ent curb and gutters, brick gutters and [illegible] iron covered gutters where property ow[illegible] have not constructed the same.

Bids will be received until 2 [illegible] m., Sept. 20, by the Street Assessment C[illegible]ittee for street work as follows: Racin[illegible] St., from the easterly side of Main St. to [illegible] westerly side of Logan St., in the Third [illegible]d, being about 1,730 lin. ft., to be grade[illegible] a subgrade and surfaced with about 6,[illegible] sq. ft. of macadam, with cement curb and [illegible]tter.

MILWAUKEE, WIS.—The Boa[illegible] of Public Works has awarded the contract [illegible] paving with asphalt, Downer Ave., fro[illegible]ewberry Boulevard to Kenwood Boulev[illegible] 11,447 yds., to the WHITE CONSTRU[illegible]ON CO., at $2.47 per sq. yd., including gr[illegible]ing.

The Board of Public Works h[illegible] awarded contracts for furnishing crushed [illegible]one and screenings, as follows: JOHN [illegible]NAHUE $30,000 and $1,600, respectively; [illegible] LOUIS MANEGOLD, $30,000 and $4,7[illegible] respectively; J. J. O'LOUGHLIN, $3,50[illegible] RACINE (WIS.) STONE CO., $13,000.

The Board of Public Works ha[illegible] awarded contract for paving, with asphalt, [illegible] Teutonia Ave., from Hadley to Ring Sts., [illegible]5,938 sq. yds., to the BADGER CONSTRU[illegible]ON CO., Milwaukee, at $2.20 per sq. yd.; [illegible]14 ft. of new curbing, 65 cts. per ft.; resetting old curbing, 15 cts. per ft.

Bids are asked by the Board of Public Works until Sept. 10 for paving work as follows: Kettle River sandstone — North Ave., from Humboldt Ave. to the Milwaukee River; Becher St., from Greenbush St. to the Kinnickinnic River; Fourth St., from Clybourn to Fowler Sts. Brick—Fourth St., from Vliet to Poplar Sts.; Prairie St., from Third to Fifth Sts.; Central Ave., from Seventh to Eleventh Sts.; Lapham St., from 22d to 23d Aves.; Port Washington Road, from Green Bay to Keefe Aves. Asphalt—Milwaukee St., from Oneida to Biddle Sts.; Martin St., from East Water to Market Sts.; Oakland Ave., from Newberry Boulevard to Folsom Pl. Charles J. Poetsch is City Engr.

KNOXVILLE, IOWA.—Bids are asked until Sept. 15 for eight blocks of creosote wood block pavement and curbing at Knoxville. M. G. Hall, Centerville, Iowa, is Engr.

DES MOINES, IOWA.—Bids will be received until 10 a. m., Sept. 15, by the City Council for paving with sheet asphalt upon a 5-in. Portland cement concrete foundation, West 26th St., about 2,410 sq. yds. paving. Bids will also be received same place as above until Sept. 13 for paving with vitrified brick upon a 4-in. Portland cement concrete foundation, Southwest Ninth St., about 12,700 sq. yds. paving.

MONTEZUMA, IOWA.—The following are the bids received for paving on Aug. 16: (a) 27,000 sq. yds. brick, on 4-in. concrete, with cement filler; (b) 1,000 sq. yds. concrete paving, 5-in. thick; (c) 10,300 ft. 5-in. concrete curb, 20 ins. deep; (d) 4,700 ft. 6-in. concrete curb, 20 ins. deep; (e) total: M. FORD, Cedar Rapids, Iowa, (a) $1.99½, (b) $1.29, (c) 39½ cts., (d) 43½ cts.; (e) $61,268 (awarded contract); Hamilton E. Schwarts, Shenandoah, Iowa, (a) $2.04, (b) $1.39, (c) 42 cts., (d) 48 cts., (e) $63,052; McCarthy Improvement Co., Davenport, Iowa, (a) $2.04, (b) $1.53, (c) 40 cts., (d) 45 cts., (e) $62,845; Independent Construction Co., Davenport, Iowa, (a) $2.02, (c) 42 cts., (d) 47 cts. James Austin Mortland is City Engr.

WASECA, MINN.—The contract for paving Lake Ave. with brick has been awarded to W. F. ROURK, at $2.09 per lin. ft., or a total of $21,000.

WHITE BEAR LAKE, MINN.—Bids will be received until 10 a. m., Sept. 20, by Edward G. Krahmer, County Audr., at St. Paul, for improving Lake Ave. at White Bear Lake.

WICHITA, KAN.—The KANSAS BITULITHIC CO. has secured the contract for paving St. Francis Ave., and the TEXAS BITULITHIC CO. for paving West Douglas Ave.

FORT CROOK, NEB.—Bids are asked until 11 a. m., Sept. 22, by Capt. Joseph G. Gohn, Constr. Q. M., for the construction of 12,300 sq. ft. (more or less) of cement walks at Fort Crook.

HELENA, MONT.—The contract for the curbing, laying cement sidewalks, grading and parking the Fourth Ward Improvement District has been awarded to the MIRACLE-TRIPP CONCRETE CO., the work to be done for the sum of $70,637.

KANSAS CITY, MO.—Contracts for asphalt paving have been awarded as follows: To CLEVELAND TRINIDAD CO. for Askew Ave. and Charlotte St., $1.89 per sq. yd., and to the BARBER ASPHALT CO., for Montgall, Agnes and Elmwood Aves. and Eleventh and 30th Sts., at $1.83 per sq. yd., all having 10-yr. maintenance guaranteed. Bids were received Aug. 24. Robert W. Goodnow is Secy. Bd. Pub. Wks.

FORT WORTH, TEX.—J. H. Maddox, Comr. of Streets and Public Buildings, states that contracts will be let soon for not less than 20 miles paving. J. D. Trammell is City Engr.

FORT SAM HOUSTON, TEX.—Bids are asked by L. J. Fleming, Constr. Q. M., until 11 a. m., Sept. 22, for grading of roads and grounds and construction of drains and concrete walks for new cavalry post, Fort Sam Houston.

*McALESTER, OKLA.—Bids are asked until 7.30 p. m., Sept. 21, by J. M. Cannaway, City Clerk, for the construction of vitrified block pavement, cement base, cement curb and gutter. J. Phelan is City Engr.

ELK CITY, OKLA.—We are officially advised that bids will be received soon for paving eight blocks on Broadway with sheet asphalt. F. H. Lancashire, Engr., of Dallas, Tex., has been retained to prepare plans and specifications. R. J. Carlile is City Clerk.

DENVER, COLO.—The MUNICIPAL CONSTRUCTION CO., of Denver, has secured a contract for grading and street improvements in Montclair Improvement District No. 1, at $48,895.

VANCOUVER, WASH.—Bids are asked by the Constructing Q. M., Vancouver Barracks, until 11 a. m., Sept. 28, for the construction of about 8,210 ft. of road known as Reserve St., with crushed rock, including clearing, grubbing, grading, construction of drains, culverts, fences, etc.; incident to the work is included the tearing out of the end of one building, removal of another, and the resetting of a pole line carrying electric wires, primary meters, etc.

OLYMPIA, WASH.—Bids are asked until 2 p. m., Sept. 15, by State Highway Board, Henry L. Bowlby, Secy., Olympia, Wash., for clearing, grubbing, grading and graveling State Aid Road No. 43.

THE DALLES, ORE.—The City Council has ordered the paving of Second St. with bitulithic from Taylor to Liberty Sts. Estimated cost, $41,398.

SAN DIEGO, CAL.—We are officially advised that bonds to the amount of $1,250,000 have been voted by San Diego County, Cal., to be expended by its Highway Commission, Lawyers Block, in improving 450 miles of highways. A number of large and small bridges will be built and a large per cent. of the roads will be paved with disintegrated granite. Construction will probably begin in November. T. A. Bedford is Ch. Engr.

SACRAMENTO, CAL.—Bids will be received until Sept. 13 by M. J. Desmond, City Clk., for constructing an oiled macadam pavement on G St.

OAKLAND, CAL.—Bids are asked by John P. Cook, Clerk Bd. of Supervs., until 10 a. m., Sept. 13, for macadamizing, guttering and drains for Sherman St. or Old County Road No. 708, from Fruitvale Ave. to Sausal Creek, in Fruitvale Road District; also for macadamizing Division St., from Fruitvale Ave. northwesterly a distance of about 1,557 ft. to Park St., in Fruitvale Road District; also for macadamizing of a portion of Lucas Ave., from East 14th St. to the lands now or formerly of Peter Matthews, in Brooklyn Road District.

SALT LAKE CITY, UTAH.—Bids are asked by the Board of Public Works, until 8 p. m., Sept. 10, for the work of grading, curbing and guttering and laying cement sidewalks in Curb and Gutter Extensions Nos. 11 and 12. Louis C. Kelsey is City Engr.

We are officially advised that P. J. Moran, of Salt Lake City, submitted the only bid, at $100,102, for paving Extension No. 54 with California asphalt. Time, 135 days. Louis C. Kelsey is City Engr.

BOISE, IDAHO.—The lowest bids opened Aug. 12 by Board Public Works for constructing sidewalks and curbs in Dist. No. 30 were submitted by A. C. Sunton at $21,977, and William Beavers at $22,123.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

LOWELL, MASS.—A permit has been issued to the Merrimack Mfg. Co., Lowell, Mass., for an addition to its boiler room. This addition will be 49 × 31 ft. and will be 22 ft. high, built of brick.

TAFTVILLE, CONN.—We are officially advised that the Ponemah Mills Co. has had plans prepared for a weaving shed 670 × 200 ft., to be one story high, of heavy mill construction with basement and tooth-saw roof. The estimated cost is $225,000. The contract has been let to the J. W. BISHOP CO., 107 Foster St., Worcester, Mass. T. P. Sheldon & Sons, of Providence, R. I.

STONINGTON, CONN.—The American Velvet Co., Stonington, Conn., has submitted to the Stonington Building Co., owners of the structure, a proposition for building an addition. The new structure, if erected, will be 100 × 125 ft., costing about $30,000, and will enable the company to increase the number of its employees about 100, the present force now numbering 300 hands. The concern is considering the increasing of its shares of stock from $48 to 1,200, each share having a par value of $100. It will take one-quarter of the new issue of stock, and will also lease the plant for ten years, from Dec. 1, 1911, when its present lease expires, if the addition is built by the owners of the property. Charles A. Wimpfheimer is Pres.

HARTFORD, CONN.—The Universal Machine Co. is reported to have plans in preparation for a factory to cover 40,000 sq. ft. Part of the building will be two stories high.

BRIDGEPORT, CONN.—Work will be started on the factory which J. H. S. Jones will build on Noble Ave. to replace the one recently destroyed by fire. The plans have been prepared by A. S. Meloy. An 80-HP. boiler and a 50-HP. engine will be installed for power, and the whole plant will be equipped with automatic sprinklers. The work on the building will be done by the day.

DUNKIRK, N. Y.—It was announced recently that the American Locomotive Co. will expend approximately $700,000 in enlarging the Brooks plant here and in installing new machinery. The company expects to have the plant running at its full capacity by fall.

LONG ISLAND CITY (L. I.), N. Y.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, New York, has been awarded the general contract for a reinforced-concrete factory building for John F. Galvin, East Ave. and 18th St., Long Island City. This building will be 200 × 100 ft., and six stories and basement in height. William Higginson, 13 Park Row, New York, is Arch. Work will be undertaken at once.

BROOKLYN, N. Y.—The TURNER CONSTRUCTION CO., 11 Broadway, New York, has been awarded the contract for the factory building for the Royal Baking Powder Co., Kent Ave. and Morton St., Brooklyn. This building will be of reinforced concrete throughout, 216 × 53 ft., and six stories high. Benjamin Finkensieper, 134 Broadway, Brooklyn, is Arch.

OSWEGO, N. Y.—The Kingsford Foundry & Machine Works Co. has plans in progress for a 1-story foundry building, 75 × 125 ft., of brick and steel. The owners will receive bids.

BUFFALO, N. Y.—H. Osgood Holland, Arch., 417 Mutual Life Bldg., has prepared plans for a 5-story and basement factory building, 45 × 110 ft., of brick and steel, fireproof, with electric elevator, steam heat, to be erected at the corner of Tenth, Division and Elm Sts. by Nathan Gutman & Co., 56-58 Pearl St. The architect will receive bids at once.

Isadore J. Lande, Model Skirt Co., 508 Washington St., will erect a manufacturing plant with four stories and basement, 45 × 96 ft., at Washington and East Huron Sts. J. R. White, 44 Falls St., Niagara Falls, N. Y., is Arch.

The United States Rubber Reclaiming Works, Frank H. Brewster, Supt., 724 Babcock St., will build a 1-story and basement brick warehouse, 55 × 209 ft., of mill construction at Babcock St. and Erie R. R. Ulysses G. Orr, Arch., 32 Builders' Exchange.

The D. H. Stoll Co., manufacturers of presses and dies, D. H. Stoll, Pres., 30 Lansing St., has plans in preparation and will receive bids for a 2-story and basement addition to its plant at Lansing St. and Military Road. It will be built of brick and structural iron.

The Liegele Brewing Co., George C. Ginther, Mgr., has let general contract for a 1-story and basement wash-house, 50 × 125 ft., and 25 × 45 ft., of brick, steel and reinforced concrete cosstruction, at Washington and Virginia Sts., to GEORGE KEMPFS SONS, 99 Locust St. Cost, $30,000.

The Cataract Refining Co., 916 Mutual Life Bldg., will build a 1-story and basement fireproof addition to its oil and grease refining plant at Gilbert and Manitoba Sts. The building will be 45 × 170 ft., of brick and steel. Robert J. Reidpath is Arch., 29 Builders Exchange.

READING, PA.—The Steiner & Talcott Silk Co. will double the capacity of its present plant at West Reading. The main building will be 45 × 170 ft. and three stories high. The power-house will be 33 × 40 ft. and one story. The other building will be 60 × 20 ft. and one story. The structure will be ready for occupancy on Jan. 1, and will have a capacity of 60,000 yds. of silk a month, and 200 looms will be operated.

NEWELL, PA.—The NICOLA BROS. CO., Farmers' Bank Bldg., Pittsburg, Pa., has been awarded the contract for the construction of the first two buildings of the proposed plant of the General Chemical Co., of New York. The contract price is $64,477, and is for the buildings alone, without any interior equipment. The contract specified that the buildings, which are to be of structural steel and brick, with concrete floors, are to be completed by Dec. 22, of this year. This is the beginning of the plant which the General Chemical Co. proposes to build here, and which will cost, when completed, about $3,500,000. The contracts for the interior equipment will be awarded in a short time, but the contract for additional buildings will not be awarded before fall.

LOCK HAVEN, PA.—At a meeting of the Board of Directors of the Hayes Run Fire Brick Co., held here recently, it was decided to rebuild the plant destroyed by fire this summer, and Carroll Kellar, Gen. Mgr. of the company, is preparing plans and specifications. The main building will be of brick and steel construction, two stories in height, and 70 × 300 ft. in size. The number of kilns has not been decided upon. The plant complete will cost about $100,000.

SCOTTDALE, PA.—Thomas J. Hill and Harry L. Seitz, both of this city, have purchased a site on North Broadway and Mulberry St. and will build a steam laundry with private power plant and complete mechanical equipment. The building, which will be erected this summer, will be 42 × 110 ft., brick and one story in height.

BROWNSVILLE, PA.—The contract for the construction of the coking plant of the Isabella-Connellsville Coke Co. has been awarded to REAGAN, LYNCH & CO., of Uniontown, Pa. The contract amounts to about $1,500,000, and calls for the construction of 500 modern bee-hive coke ovens, all grading for the plant, and the grading for and construction of 1½ miles of railroad to connect the plant with the main line of the Pennsylvania R. R. Work is to be started at once, and the contractors have opened headquarters at the Storey House, this city. It will require about two years to complete the contract. George S. Baton, Keystone Bldg., Pittsburg, is Ch. Engr. of the company, and awards contracts.

PHILADELPHIA, PA.—Plans have been completed and estimates asked for erection of a printing and manufacturing building on the block bounded by Cherry, Juniper, Quarry and Clarion Sts., for George F. Lasher, 147 North Tenth St., at a cost of about $300,000.

BALTIMORE, MD.—The American Label Mfg. Co. has awarded a contract to McLAUGHLIN BROS., 100 East Lexington St., to build a large addition to its plant at Cross and Covington Sts, South Baltimore, to cost about $30,000. The building will be a 1-story brick partly fireproof structure, 129 × 273 ft. It will be covered with a slag roof and heated with steam.

CHASE CITY, VA.—Walker & Bro., of Wilson, N. C., manufacturers of hosiery, are reported to have completed arrangements to establish a branch hosiery knitting mills at Chase City, Va.

BENWOOD, W. VA.—The Pittsburg "Post" states that M. A. Long, Arch. of the Baltimore & Ohio R. R. Co., Baltimore, Md., is preparing plans for the buildings to be erected in connection with the new terminal at Benwood Junction. The machine shop will be 60 × 90 ft.; power-house, 55 × 60 ft.; oil house, 30 × 64 ft.; storage room and office building, 30 × 70 ft., and the round-house will be 90 ft. in diameter. Bids for this work will be invited at once, and work is to be started the latter part of this month. The Benwood Junction buildings will be of brick and steel and will be fireproof. The officials say the new buildings must be completed shortly after the first of the year.

NEWELL, W. VA.—J. W. Bock, of East Liverpool, Ohio, has secured a site near the P. C. C. & St. L. R. R. station, and proposes building a plant at once for the manufacture of porcelain wares of various kinds. The plant will have three kilns at the start, but this number, as well as the capacity of the grinding and molding departments, will be increased later by the addition of additional units.

RONDA, N. C.—Plans are being made by Robert S. Noah for the establishment at Ronda of a large linen and paper factory. A plant to cost $500,000, including site, building and machinery, is contemplated. Linen will be manufactured from flax.

BIRMINGHAM, ALA.—The Bullard Car Door Equipment Co. has acquired several acres of land at the corner of 15th St. and First Ave., Woodlawn, upon which it will at once begin the erection of a $50,000 car door equipment manufacturing plant. The land was bought from Dr. W. T. Masterson. Plans have all been completed for the building. It will contain a drop forge and rolling mill. When finished the plant will employ from 300 to 500 men. The Bullard company was organized recently, and R. G. Bullard is Pres. and Peyton Norvell Vice-Pres. of the organization.

LOUISVILLE, KY.—Plans are being prepared for a big cordage mill to be erected at Reutlinger and Dandridge Aves. for the Bradford Worsted Mill Co. Capt. Brinton B. Davis interested. Cost, $90,000.

CALUMET (Toleston post-office), IND.—The Cudahy Packing Co., of Omaha, Neb., has begun preparations for the construction of a plant in Calumet, between East Chicago and Indiana Harbor, to employ 2,000 men. About $500,000 is to be expended at once on the erection of a group of buildings and for laying tracks and switches, and it is estimated that by the first of the year the factory will be in operation, providing employment for between 400 and 500 persons. This industry will represent only one feature of the plant to be located at this point. An establishment, in which the Cudahy people propose to manufacture the cars used in their business, and a sweet glycerin factory and a factory for the manufacture of wool felt for insulation purposes are planned.

GREENWOOD, IND.—C. B. Cook & Sons will ask for bids soon for the erection of an elevator on the site of the building recently destroyed by fire. The building will be of concrete and steel and equipped with sprinklers.

FORT WAYNE, IND.—It is reported that Fred, Edward and Charles Schusfer, of Marion, Ind., will ask for bids soon for the construction and equipment of an artificial ice plant in Fort Wayne.

PONTIAC, MICH.—The Oakland Motor Car Co.'s plant in Pontiac, Mich., is to be enlarged. By the acquirement of the Pontiac Buggy Co. property and other buildings to be erected at once, the company will have a capacity of 12,000 cars a year. The complete plant will occupy twelve acres and have about 700,000 sq. ft. of space. Among the buildings to be erected will be a 4-story structure, 72 × 140 ft., which will join the main Oakland plant and will be L-shaped. There also will be a 1-story building built for assembling purposes, 60 × 200 ft. This will have a saw-tooth, glass top roof. An extension will be built on the test house to be 60 × 75 ft. and two stories in height. Another building, 80 × 160 ft., four stories, will be built which will be used for the assembly of the new Oakland models.

MILWAUKEE, WIS.—We are officially advised that the RAYMOND CONCRETE PILE CO., 90 West St., New York, has been awarded the contract for the concrete pile foundations of a building to be erected on Seventh St., Milwaukee, for the George Seelman & Sons Co.

EARL, ARK.—It is reported that N. B. Graves will form a corporation with not less than $50,000 capital to build and operate the proposed mill. Mr. Graves has not decided what the product will be, although it probably will be cotton sheetings. He proposes to erect a mill with space of 10,000 spindles and 300 looms, although this number will not be installed at first. A steam power pant will be built.

ALAMOSA, COLO.—The Conejos Flouring Mill Co. will install about $15,000 worth of machinery, it is stated.

LANCASTER, CAL.—The Los Angeles Aqueduct Co. will begin work immediately in the west end of the valley, constructing a plant for the purpose of combining tufa and cement.

SALT LAKE CITY, UTAH.—John R. Riley, of Salt Lake City, and associates, are planning to start a mill in this city for the manufacture of linoleum and oilcloth.

WINNIPEG, MAN.—The Winnipeg Electric Ry. Co. has prepared plans for construction of a car house, repair shops and substation, to cost $100,000, to be built at the north end of Winnipeg. Wilford Phillips is Gen. Mgr. and Ch. Engr.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DITCH.—Wheaton, Minn.—Bids will be received by J. T. Erickson, County Audr., until Sept. 11, for constructing Judicial Ditch No. 3. Estimated cost, $13,283.

*GRADING.—Tampa, Fla.—Bids are asked by Alfred C. Olney, Ch. Engr. Tampa Northern R. R. Co., until noon, Sept. 20, for construction of 40 miles of railroad.

DITCH.—Mason City, Iowa.—CHRISTIANSON & BURGETT, of Garner, have secured contract for constructing a drainage ditch in Dist. 16, near Ventura, for $5,892.

DREDGING.—Ft. Moultrie, S. C.—Bids will be received until Sept. 27 by the Construction Quartermaster, U. S. A., at Ft. Moultrie, for dredging channel from Q. M. wharf, Ft. Monroe, to Charleston Harbor.

SUBWAY.—Saskatoon, Sask.—Bids will be received by William Hopkins, Mayor, until 5 p. m., Sept. 22, for the construction of a subway under 22d St. Estimated cost, $70,000. George T. Clark, City Engr.

WIRE FENCE.—Ft. Reno, Okla.—Bids will be received until Sept. 15 by Capt. L. Hardeman, D. Q. M., U. S. A., for constructing a loading and unloading platform and six miles woven-wire fence at this post.

DITCH.—Sac City, Iowa.—No bids were received on Aug. 26 for constructing proposed tile ditch. The work includes about 5,000 ft. 10 to 14-in. title. New bids will be received Sept. 16. Harry Baxter, County Audr.

*DREDGING.—Ft. Terry, N. Y.—Bids will be received by Capt. Chas. T. Baker, Q. M., U. S. A., at New London, Conn., until 10 a. m., Sept. 18, for dredging approximately 127,000 cu. yds.; also for wharf construction at Ft. Terry, N. Y.

BOILER.—New York, N. Y.—Bids are asked until noon, Sept. 16, by the Department of Docks and Ferries, for Contract No. 1191, for preparing for and furnishing and installing a new boiler in the tug "Brooklyn," complete, with all appurtenances.

DITCH.—Avoca, Iowa.—Bids will be received until Sept. 13 by the Board County Supervisors at Council Bluffs, for constructing Nishnabotna Drainage Ditch, No. 5, between the towns of Avoca and Oakland, about 13 miles in length. The work has been divided into eight sections, and separate bids will be received on each section. R. V. Innes is County Auditor.

*TUNNEL.—Chicago, Ill.—Bids were received on Sept. 1 by the Chicago Rys. Co. for the construction of the La Salle St. tunnel. (For details see advertisement in issue of Aug. 5.) Bids were as follows: M. H. McGovern, $1,166,421; George W. Jackson, Inc., $1,389,000; Empire Construction Co., $1,594,605; Great Lakes Dredge & Dock Co., $1,686,175. All bidders are Chicago firms.

*GRADING.—St. Louis, Mo.—Bids are asked until noon, Sept. 20, by the University Heights Realty & Development Co. for grading, for resident purposes, a tract of land 2,000 × 3,000 ft., adjacent to the western city limits of St. Louis, Mo. A total of 810,000 cu. yds. is to be excavated, all of which is to be deposited upon the property graded. B. H. Colby, Engr., 812 Security Bldg., St. Louis.

PIERS.—North Chicago, Ill.—Bids were received as follows on Sept. 7 by the Bureau of Navigation, Navy Dept., Washington, for the construction of harbor entrance piers at the Naval Training Station, Great Lakes, North Chicago, Ill.: Great Lakes Dredging & Dock Co., Chamber of Commerce Bldg., Chicago, $81,000, $82,400, $71,000, $72,400, $68,000, $69,400; P. W. Galloway, Racine, Wis., $71,312, $69,312; Standard Construction Co., Chicago, $71,800, $70,700.

BATTLESHIPS.—Washington, D. C.—It is reported that award will be made by the Navy Department, Washington, for battleships 32 (Wyoming) and 33 (Arkansas) as follows: One to WM. CRAMP & SONS SHIP & ENGINE BUILDING CO. Philadelphia, at $4,450,000, on government plans and specifications; time, 32 months. One to the NEW YORK SHIPBUILDING CO., Camden, N. J., at $4,675,000, on government plans and specifications; time, 32 months. It is also reported that award will be made to the MARYLAND STEEL CO., Sparrow's Point, Md., for a collier, at $889,000. No award, however, has as yet been made on any of the vessels.

DREDGING.—California City Point, Cal.—Bids were received as follows on Sept. 4 by the Bureau of Yards and Docks, Navy Department, Washington, for dredging at the Naval Coal Depot, California City Point, Cal., (a) dredging complete, (b) price for rock excavation per cubic yard, (c) price for excavation other than rock, per cu. yd.: San Francisco Bridge Co., 607 Market St., San Francisco, (a) $19,378, (b) $10, (c) 30 cts.; H. R. Harris, 95 Market St., San Francisco, (a) $23,999, (b) $11, (c) 50 cts.; J. S. McAnany, 6 East St., San Francisco, (a) $40,800, (b) $19.50, (c) $1; Standard American Dredging Co., Merchants' Exchange Bldg., San Francisco, (a) $26,000, (b) $10, (c) 25 cts.

COLLIERS.—Washington, D. C.—Bids were received as follows at the office of the Secretary of the Navy, Washington, for a collier for the Navy: Moran Bros. Co., Seattle, (2) $898,000; 18 months. New York Shipbuilding Co., Camden, N. J., (1) $1,050,000; 22 months. Fore River Shipbuilding Co., Quincy, Mass., (1) $974,000; 22½ months. Newport News Shipbuilding & Dry Dock Co., Newport News, Va., (1) $900,000; 22 months. MARYLAND STEEL CO., Sparrow's Point, Md., (1) $889,000 (awarded contract); (2) $940,200; 20 and 22 months respectively. Wm. Cramp & Sons Ship & Engine Building Co., Philadelphia, (1) $899,909; 22 months. (1) is on Government specifications for hull and machinery; (2) on Government specifications for hull and bidder's specifications for machinery.

*BARGE CANAL.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. of Public Works, until noon, Oct. 5th, on Barge Canal Contracts Nos. 2-E and 43. Contract No. 2-EE is for completion of the construction of the canal from Mohawk River at Waterford to a point one-quarter of a mile above the head of Lock No. 3, the work being that portion of Contract No. 2 which was unfinished at the time the original contractor, the Ferguson Contracting Co., of New York, withdrew from the contract. The Engineer's estimate is $263,189. Contract No. 43 is for constructing the canal from a point just east of Oriskany Road to about 1,500 ft. west of Mud Creek, a distance of 10.32 miles. The excavation called for amounts to more than 5,000,000 cu. yds. The engineer's estimate for the contract is $1,529,885. Frank M. Williams is State Engr. and Surveyor.

U. S. POSSESSIONS.

*BOILERS, ENGINES, ETC.—Philippines.—Bids are asked by Lieut.-Col. Edw. Burr, Corps Engrs., U. S. A., Boston, Mass., until noon, Sept. 30, for boilers, engines and generators (for Philippine Islands).

DRY DOCK.—Hawaii.—Contracts with the SAN FRANCISCO BRIDGE CO. for the construction of the Pearl Harbor Dry Dock, Hawaii, at $1,760,000, and with the MARYLAND STEEL CO., of Sparrow's Point, for the construction of a fleet collier at $889,000, were signed on Sept. 7 by the Acting Secretary of the Navy.

CASTINGS.—Panama.—Bids were received as follows on Aug. 30 by the Isthmian Canal Commission, Washington, for a quantity of malleable iron castings for 80,000-lb. flat cars, 25-yd. Western dumps, 12-yd. Western dump cars, and 12-yd. Oliver cars: Buhl Malleables Co., Detroit, $21,154.85; Excelsior Equipment Co., Pittsburg, $30,410, $27,765; R. C. Hoffman & Co., Baltimore, part only, $17,905; National Malleables Co., Cleveland, Ohio, $21,478; Ross-Meehan Foundry Co., Chattanooga, Tenn., $17,087; Western-Wheeled Scraper Co., Aurora, Ill., on castings for their own cars, $4,071; American Malleables Castings Co., Lancaster, N. Y., $20,053.

FOREIGN CONTRACTS.

*HEATING AND VENTILATING.—New Zealand.—Bids for heating and ventilating the Technical College Building, Auckland, New Zealand, will be received by the Auckland Education Board not later than Dec. 1, 1909. Plans and specifications and general conditions can be inspected at the offices of Engineering News, 220 Broadway, New York.

CONTRACT PRICES.

WASTEWAY. — Sunnyside, Wash. — Bids were opened on July 30 by the U. S. Reclamation Service for the construction of the Sulphur Creek wasteway, Yakima project, Washington. Bids in detail were as follows: (A) Strange & McGuire, Salt Lake City; (B) Chamberlin Construction Co., Seattle, Wash.; (C) International Contract Co., New York Block, Seattle; (D) J. M. Bruce & Co., Pacific Block, Seattle; (E) George Cooke & Son, Minneapolis, Minn.:

	(A)	(B)	(C)	(D)	(E)
12,400 cu. yds. excavation	$0.36	$0.45	$0.60	$0.32	$0.25
6,800 lin. ft. laying tile drain	0.18	0.18½	0.45	0.15	0.11½
2,000 cu. yds. concrete	9.00	10.50	11.80	11.00	9.47
Total, Schedule 1	$23,688	$27,838	$34,100	$26,988	$22,810
Schedule 2.					
400 cu. yds. excavation, Class A	2.00	0.60	1.00	0.60	0.60
375 cu. yds. excavation, Class B	2.75	1.35	1.50	0.85	1.20
5,000 ft. B. M. sheet piling and lumber in place	75.00	60.00	40.00	50.00	50.00
106 cu. yds. concrete	15.00	16.00	12.00	12.50	14.00
67 cu. yds. paving, Class A	7.50	7.85	7.00	12.00	7.50
63 cu. yds. paving, Class B	5.25	7.00	8.00	9.00	7.10
Total, Schedule 2	$4,629	$3,709	$3,407	$3,504	$3,437
Grand total, Schedules 1 and 2	$28,317	$31,547	$37,507	$30,492	$26,248

TRADE PUBLICATIONS.

PNEUMATIC RIVETERS.—John F. Allen, 370 Gerard Ave., New York City. Paper; 7¾ × 9 ins.; pp. 2; illustrated.

Illustrations of Allen jaw and stake riveters are shown in this leaflet. It is claimed that these riveters give greater tonnage per given cylinder with less air consumption than any other make.

COLLAR-OILING BEARINGS.—Hill Clutch Co., Cleveland, Ohio. Booklet No. 1. Paper; 5 × 8 ins.; illustrated.

This is the first of a series of booklets to be issued explaining the advantages of the products of the Hill Clutch Co. It discusses line-shaft bearings and shows the points of superiority of the Hill collar-oiling bearing over the ring-oiling type.

SUGAR-MAKING APPARATUS. — Wheeler Condenser & Engineering Co., Cartaret, N. J. Bulletin 105. Paper; 8 × 10½ ins.; pp. 24; illustrated.

Evaporators and vacuum kettles, for concentrating cane juices, and various chemical solutions, form the principal topics of this catalog. This concern's line of vacuum pumps and steam condensers is briefly mentioned.

FEED-WATER HEATERS.—Wm. B. Scaife & Sons., Pittsburg, Pa. Paper; 7 × 9 ins.; pp. 14.

This pamphlet is a reprint of an article, "Feed-Water Heaters as Purifiers," which appeared in "Industrial Engineering" for April, 1909, and was written by Mr. J. C. W. Greth, M. Am. Soc. M. E., manager of the water-purifying department of this concern.

STEAM-PLANT AUXILIARIES. — Warren Webster & Co., Camden, N. J. Paper; 6 × 9 ins.; pp. 80; illustrated.

The many special appliances, made by this company, such as radiator controllers and valves, damper regulators, air washers, feed-water heaters and purifiers, oil separators, traps, tanks, expansion joints, strainer connections, etc., etc., are illustrated here. The illustrations are accompanied by brief descriptions.

ELECTRIC RAILWAY CONTROL.—General Electric Co., Schenectady, N. Y. Bulletin 4677. Paper; 8 × 10½ ins.; pp. 15; illustrated.

The various pieces of apparatus forming the Sprague system for controlling multiple-unit electric trains are pictured and described here. In this system a single master-controller actuates all the motor-switches on the train and these in turn control the propelling current.

CHAIN-BELT CONVEYORS.—Chain Belt Co., Milwaukee, Wis. Catalog No. 37. Cloth; 6 × 9 ins.; pp. 303; illustrated.

This catalog contains illustrations and list prices of a full line of chain belt and chain-belt conveyors. Accessory parts such as sprockets, shaft boxes, elevator boots, etc., are also listed. The last few pages are devoted to other products of this company including shaft couplings, tumbling mills, revolving screens and concrete mixers.

ROAD PRESERVATION.—Barrett Mfg. Co., 17 Battery Place, New York City. Paper; 4 × 6 ins.; pp. 16; illustrated.

After quoting some extracts from a report by Mr. N. P. Lewis, Chief Engineer of the Board of Estimate and Apportionment of New York City, on conclusions arrived at at the International Road Congress in Paris, held in 1908, the remaining half of this little pamphlet is devoted to an exposition of the merits of "Tarvia" for road construction and dust prevention purposes.

SINGLE-PHASE MOTORS.—General Electric Co., Schenectady, N. Y. Bulletin 4675. Paper; 8 × 10½ ins.; pp. 11; illustrated.

The motor here described was designed to fill the want of a small single-phase motor with greater starting torque than developed by the constant-speed types in common use and with a certain range of speed control. This is a repulsion type with a direct-current armature and a commutator for the rotor. One pair of brushes is short circuited and the second pair is connected to a compensating field winding. Speed control is effected by placing resistance or impedence

For other Proposal Advertisements see pages 51, 52, 53, 54, 55, of Advertisements and Construction News page 96.

BUILDINGS.

Spring City, Pa.

Sealed proposals will be received to erect Dormitory Buildings K and M, Conduits, Grading and Filling, for the Institution for Feeble Minded and Epileptics, near Spring City, Pa., in care of the Hon. John M. Scott's Office, 625 Walnut St., Philadelphia, until 10 o'clock A. M., Thursday, October 7th, 1909, at which time they will be opened in the presence of the public by the Commission appointed to erect the Institution. Plans and specifications showing location, etc., may be obtained at the office of the Architect, Philip H. Johnson, 1825 Land Title Building, Philadelphia, Pa., by depositing the sum of Two Hundred Dollars ($200.00), One Hundred and Ninety-five Dollars ($195.00) of which will be refunded upon the return of the plans and specifications. Bids from others than those engaged in actual business in the general branches therein mentioned will not be entertained or considered. The Commission reserves the right to accept as a whole or in part or reject any and all bids, as may be deemed best for the interests of the Commonwealth.

J. F. SHERWOOD, Secretary.

SEWER SYSTEM AND DISPOSAL WORKS.

Board Room, City Hall.
Bordentown, N. J., Sept. 2d, 1909.

AUTHORITY being given by, or pursuant to, the provisions of Chapters 196 and 266 of the Laws of New Jersey of 1907, Chapter 172 of the Laws of New Jersey of 1908, Chapter 97 of the Laws of New Jersey of 1909, Ordinances of the City of Bordentown, New Jersey, June 9th, 1909, and laws amendatory of or supplementary to these Laws;

SEALED BIDS, addressed to the President of the Board of Sewer Commissioners and accompanied by a certified check for at least five per cent. of the amount bid for each section bid upon, will be received up to 8 P. M., Thursday, Sept. 23d, 1909, for the furnishing all work and materials necessary for the watertight and enduring

CONSTRUCTION, of each one separately or both together, of the two sections; which jointly comprise about nine miles of eight to fifteen-inch pipe sewer, with branches and appurtenances, and a disposal works with all parts and connections including sandfilters, sludge and flood basins, reinforced concrete chambers and contact beds.

PLANS AND SPECIFICATIONS, Invitation to Contractors and Forms of Bids and Contract, may be seen here and at the three following offices of the Engineer: 1002 Drexel Building, Philadelphia, Pa.; 220 Broadway, New York City, and 43 Park Street, Bordentown, N. J., and may be loaned Contractors upon the deposit of fifteen dollars to insure their safe return within five weeks.

FORMS OF BIDS must fulfill requirements of the Invitation and be made upon the Printed Form for Bid as above obtained, on or after Sept. 2d, or the like, and the Board reserves the right to reject any or all bids, or to accept any bid, or bids, and, later, for each respective section, increase or reduce the quantities and amount, at the prices bid not exceeding twenty-five per cent. of the amount bid for that section.

STANLEY WAMPOLE,
Secretary.

W. W. YOUNG,
Consulting Engineer.

INTERCEPTING SEWER.

Kingston, N. Y.
CONTRACT 48.

Sealed bids will be received by the Board of Water Supply, in Room 910, 299 Broadway, New York, until 11 a. m., on September 28, 1909, for Contract 48, for the construction of a portion of an intercepting sewer in the City of Kingston, Ulster County, New York. The work consists of laying about 1,300 feet of 24-inch vitrified sewer-pipe, and driving about 6,200 feet of tunnel in earth and rock. At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders and contract drawings can be obtained at Room 1510 at the above address by depositing the sum of ten dollars ($10) for each pamphlet. For further particulars see Information for Bidders.

JOHN A. BENSEL,
President,
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Commissioners of the Board of Water Supply.
J. WALDO SMITH,
Chief Engineer.
THOMAS HASSETT,
Secretary.

WATER-WORKS SYSTEM.

Painted Post, N. Y.

Sealed proposals will be received by the Board of Trustees of the Village of Painted Post, N. Y., until 7.30 P. M., Sept. 23, 1909, for the construction of a Water Works System, including all the material, tools and labor necessary to complete the same.

Bids will be received for the whole of the work or for either or any of the following parts: the piping system, the reservoir, the pumping station, the pumping equipment or any other part thereof.

Plans may be seen and specifications obtained at the office of Andres D. Stevens, President of the Village of Painted Post in said Village.

The Board hereby reserves the right to accept or reject any bid.

Bonds satisfactory to the Board will be required of the bidder to whom the contract is awarded. A certified check, payable to the order of the Treasurer of said Village to the amount of [illegible] Thousand Dollars, must accompany each bid as a guarantee that in case the contract is awarded to the bidder he will within three days after the notification of the award execute said contract.

Bids must be sealed and addressed to the Board of Trustees of the Village of Painted Post, Painted Post, N. Y., and marked on the outside of the envelope enclosing them "Proposal [illegible] Painted Post Water Works."

Dated Sept. 7, 1909.

By order of the Board of Trustees of the Village of Painted Post.

ANDRES D. STEVENS, President.
JOHN L. CHATFIELD, Clerk.
KNIGHT & HOPKINS,
Engineers, Rome, N. Y.

WATER-WORKS.

Lodi, N. J.

Sealed proposals will be received by the Mayor and Council of the Borough of Lodi at the Council Rooms, McGrath's Hall, Main Street, Lodi, N. J., on Monday, September 20th, 1909, at 8 o'clock P. M., for the construction and installation of a water supply system consisting of the following approximate estimate of quantities of:

37,300 lin. ft. of 6-in. and 4-in. Cast Iron Pipe.
5,500 lin. ft. of 8-in., 10-in. and 18-in. Cast Iron Pipe.
87 Fire Hydrants.
170 Gate Valves.
50 ft. × 100 ft., 500,000 Gal. reinforced concrete covered reservoir.
300 feet 12-inch Driven Well, together with Pumping Station, Pumps, Engines and all other appurtenances.

Plans and specifications can be seen and blank forms of proposals obtained at the office of the Borough Clerk, Main St., Lodi; also at the office of Lemuel Lozier, Engineer, Bank Building, Main and Mercer Sts., Hackensack, N. J., and at the office of James H. Fuertes, Consulting Engineer, 140 Nassau Street, New York.

All proposals must be made upon the blank forms furnished.

A certified check in the sum of Twenty-five hundred ($2,500) Dollars, drawn to the order of the Mayor and Council of the Borough of Lodi, must accompany each proposal offered as surety that contract will be entered into if proposal is accepted.

A Surety Company bond equal to 50% of the amount of the contract will be required.

The Mayor and Council reserves the right to reject any or all bids.

ADRIAN ZANDEE,
Mayor.
ANDREW D. KERR,
Clerk.

PROPOSALS FOR STONE.—Mississippi River Commission, Third District, Vicksburg, Miss., September 8, 1909.—Sealed proposals for furnishing about fifteen thousand cubic yards of stone and quarry spalls on barges delivered in this district will be received at this office until noon, September 28, 1909, and then publicly opened. Information on application. CLARKE S. SMITH, Capt., Engrs. 11-3t

Situations Open

WANTED—Rock Foreman, first-class, reliable, sober man; no others need apply. 13 Park Row, Room 628, New York. 11-1t

WANTED—Tracer for engineering office. Must be rapid and accurate. State salary wanted and furnish sample of work. Address "W. A. 11," Engineering News, New York. 11-1t

Miscellaneous Wants

ESTIMATING, DESIGNING AND MAP work and drafting done by graduate civil engineers with extensive field and office experience. Address "O. [illegible] 11," Engineering News, New York. 11-2t

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